

AMPLIFIER LIMITER DETECTOR SWITCH
MIXER PLDRO PASSIVE MULTIPLIER
DIGITAL ATTENUATOR PASSIVE EQUALIZER 13ED

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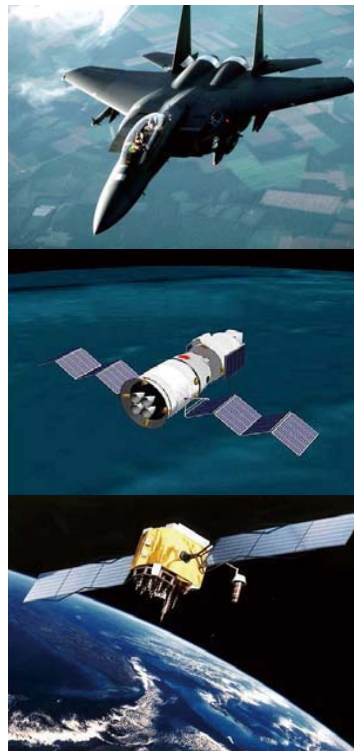
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MEURO MICROWAVE CORP



Meuro Microwave supply of microwave components and subsystems with products focus on the Amplifier, PLDRO, High power switch, YIG, Digital Phase shifter, DLVA, Mixer, I/Q mixer, Digital, Attenuator, Multiplier, Detector, Filter, Limiter, Isolator, Circulator, Filter, Power divider, Coupler, coaxial Termination, Coaxial attenuator, IFM receiver, T/R module product lines.



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ISO9001 Compliant quality,
Military systems qualified.

Superior performance and
on time delivery make Meuro
Microwave's products the
smartest choice!!

WHO WE ARE
COMPANY PROFILE



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FEATURES

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Miniature Sizes, Field Removable connector
- Compact/Rugged Thin-Film Construction



APPLICATIONS

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MLB0105G3011	0.1-0.5	30	0.6	1.1	10	1.8:1	120	BH4
MLB0201G3540	0.1-2	35	2	4	10	2:1	250	DH4
MLB1801G1050	0.1-18	10	2	5	10	2:1	150	BH2
MLB0501G1416	0.5-1	14	0.5	1.6	10	2:1	120	BH2
MLB0501G2416	0.5-1	24	0.5	1.6	10	2:1	120	BH3
MLB0501G2625	0.5-1	26	0.5	2.5	14	2:1	120	BH3
MLB0501G2807	0.5-1	28	1.5	0.7	10	2:1	120	BH3
MLB0501G3015	0.5-1	30	1	1.5	10	2:1	120	BH3
MLB0501G3010	0.5-1	30	1.25	1	12	2:1	120	BH3
MLB0501G3215	0.5-1	32	1	1.5	14	2:1	120	BH3
MLB0501G3207	0.5-1	32	1.5	0.7	12	2:1	100	BH3
MLB0502G1114	0.5-2	11	1.5	1.4	10	2:1	100	BH3
MLB0502G1560	0.5-2	15.5	1.5	6	18	2:1	300	BH2
MLB0502G2025	0.5-2	20	1	2.5	15	1.6:1	100	BH3
MLB0502G2121	0.5-2	21	1.25	2.1	18	2:1	100	BH3
MLB0502G2318	0.5-2	23	1.5	1.8	12	2:1	100	BH3
MLB0502G2435	0.5-2	24	1.25	3.5	20	2:1	100	BH3
MLB0502G2809	0.5-2	28	2	0.9	10	2:1	100	BH3
MLB0502G3013	0.5-2	30	1.5	1.3	14	2:1	100	BH3
MLB0502G3025	0.5-2	30	1	2.5	15	1.6:1	120	BH3
MLB0502G3325	0.5-2	33	1	2.5	15	1.6:1	120	BH3
MLB0502G3008	0.5-2	30	1.5	0.8	10	2:1	120	BH3
MLB0502G3135	0.5-2	31	1.25	3.5	20	2:1	100	BH3
MLB0502G3220	0.5-2	32	1.25	2	15	2:1	100	BH3
MLB0502G3215	0.5-2	32	1.5	1.5	14	2:1	100	BH3
MLB0502G3417	0.5-2	34	1.5	1.7	18	2:1	100	BH3
MLB0502G3612	0.5-2	36	2	1.2	10	2:1	100	BH4



WIDE BAND LOW NOISE AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MLB0502G3830	0.5-2	38	1.25	3	15	2:1	100	BH4
MLB0502G4035	0.5-2	40	1.25	3.5	20	2:1	100	BH4
MLB0502G5020	0.5-2	50	1	2	12	2:1	300	BH4
MLB0502G2050	0.5-2.5	20-22	0.75	5	13	1.5:2	150	BH2
MLB0205G2930	0.5-2.5	29-31	0.5	3	10	1.5:2	150	BH2
MLB0503G2520	0.5-3	25	1.25	2	12	2:1	100	BH2
MLB0503G2022	0.5-3	20±1	1.5	2.2	7	2:1	100	BH2
MLB0503G2030	0.5-3	20	1.25	3	12	2:1	100	BH2
MLB0504G3530	0.5-4	35	2	3	10	2:1	100	BH2
MLB0518G3045	0.5-18	30	2	4.5	10	2.2:1	150	BH3
MLB0806G2040	0.8-6	20-30	2.5	4	20	2:1	450	BH2
MLB0806G2815	0.8-6	28	2	1.5	10	2:1	220	BH2
MLB0806G3540	0.8-6	35	2.5	4	20	2:1	280	BH2
MLB0102G2005	1-2	20	1	0.5	20	2:1	150	BH2
MLB0102G2420	1-2	24	1	2	12	2:1	100	BH2
MLB0102G2617	1-2	26	1.75	1.7	10	2:1	100	BH2
MLB0102G2612	1-2	26	2	1.2	10	2:1	120	BH2
MLB0102G2825	1-2	28	1	2.5	18	2:1	200	BH2
MLB0102G2806	1-2	28	1.5	0.6	10	2:1	150	BH2
MLB0102G3010	1-2	30	1	1	12	2:1	100	BH2
MLB0102G3009	1-2	30	1.5	0.9	12	2:1	150	BH2
MLB0102G3109	1-2	31	2	0.9	10	2:1	120	BH2
MLB0102G3225	1-2	32	1	2.5	12	2:1	100	BH2
MLB0102G3409	1-2	34	1.5	0.9	10	2:1	130	BH2
MLB0102G3815	1-2	38	1.75	1.5	10	2:1	130	BH4
MLB0102G4130	1-2	41	1	3	18	2:1	100	BH4
MLB0102G4230	1-2	42	1.25	3	12	2:1	100	BH4
MLB0103G2811	1-3	28	1.5	1.1	8	2.5:1	150	BH4
MLB0103G5314	1-3	53(max)	1.25	1.4	11	1.7/1.5	170	TBD
MLB0104G2016	1-4	20	1.25	1.6	10	2:1	120	BH2
MLB0104G2613	1-4	26	2	1.3	10	2:1	120	BH2
MLB0104G2810	1-4	28	1.5	1	10	2:1	120	BH2
MLB0104G3014	1-4	30	1.5	1.4	12	2:1	120	BH2
MLB0106G3013	1-6	30	1.5	1.3	10	2:1	150	BH2
MLB0118G1550	1-18	15	2	5	3	2:1	300	BH2
MLB0118G1560	1-18	15	1.5	6	15	2:1	150	BH2
MLB0118G2045	1-18	20-27	2	4.5	10	2.2:1	120	BH2



WIDE BAND LOW NOISE AMPLIFIER

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MLB0118G3040	1-18	30	2.5	4	12	2:1	50	BH2
MLB0119G2050	1-19	20-27	2	5	10	2.2:1	120	BH2
MLB0202G5015	2.17-2.65	50	1.5	1.5	10	2:1	400	BH2
MLB0203G1020	2-3	10	0.5	2	12	2:1	120	BH2
MLB0203G2020	2-3	20	0.5	2	12	2:1	120	BH2
MLB0203G3520	2-3	35	0.75	2	12	2:1	120	BH2
MLB0204G2325	2-4	23	1	2.5	18	2:1	125	BH12
MLB0204G2420	2-4	24	1	2	12	2:1	125	BH2
MLB0204G2535	2-4	25	1	3.5	15	2:1	150	BH2
MLB0204G2618	2-4	26	1	1.8	10	2:1	120	BH2
MLB0204G2810	2-4	28	1	1	10	2:1	125	BH2
MLB0204G2807	2-4	28	1.5	0.7	10	2:1	120	BH2
MLB0204G2925	2-4	29	1.25	2.5	18	2:1	120	BH2
MLB0204G3010	2-4	30	1	1	12	2:1	100	BH2
MLB0204G3014	2-4	30	2	1.4	12	2:1	120	BH2
MLB0204G3207	2-4	32	1	0.7	10	2:1	150	BH2
MLB0204G3208	2-4	32	1	0.8	10	2:1	125	BH2
MLB0204G3212	2-4	32	1.5	1.2	14	2:1	120	BH3
MLB0204G3508	2-4	35	1.5	0.8	10	2:1	150	BH3
MLB0204G3925	2-4	39	1.5	2.5	18	2:1	120	BH4
MLB0204G4020	2-4	40	1.25	2	15	2:1	120	BH4
MLB0206G1530	2-6	15-17	1.5	3	13	2:1	200	BH2
MLB0206G1940	2-6	19-21	1.5	4	13	2:1	200	BH2
MLB0206G2335	2-6	23	1	3.5	18	2:1	120	BH2
MLB0206G2420	2-6	24	1	2	12	2:1	120	BH2
MLB0206G2615	2-6	26	1	1.5	10	2:1	120	BH3
MLB0206G2815	2-6	28	2	1.5	10	2:1	120	BH3
MLB0206G2935	2-6	29	1.5	3.5	18	2:1	120	BH3
MLB0206G3025	2-6	30	1.5	2.5	12	2:1	120	BH3
MLB0206G3018	2-6	30	2	1.8	12	2:1	120	BH3
MLB0206G3214	2-6	32	1.5	1.4	14	2:1	120	BH3
MLB0206G3920	2-6	39	2	2	18	2:1	150	BH4
MLB0206G4026	2-6	40	1.5	2.6	15	1.8:1	150	BH4
MLB0206G4030	2-6	40	2	3	12	2:1	150	BH4
MLB0207G2930	2-7	29-31	1	3	10	1.5:2	150	BH2
MLB0208G1625	2-8	16	1	2.5	10	2:1	150	BH2
MLB0208G1425	2-8	14	1.5	2.5	10	2:1	120	BH2



WIDE BAND LOW NOISE AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MLB0208G1525	2-8	15-17	1	2.5	8	2:1	150	BH2
MLB0208G2119	2-8	21	1	1.9	18	2:1	120	BH2
MLB0208G2235	2-8	22	1	3.5	12	2:1	120	BH2
MLB0208G2417	2-8	24	1.5	1.7	15	2:1	120	BH2
MLB0208G2525	2-8	25	1.5	2.5	18	2:1	120	BH2
MLB0208G2815	2-8	28	2	1.5	10	2:1	120	BH2
MLB0208G2930	2-8	29	1.5	3	15	2:1	100	BH3
MLB0208G2913	2-8	29	2	1.3	10	2:1	120	BH3
MLB0208G3015	2-8	30	1.5	1.5	10	2:1	150	BH3
MLB0208G3315	2-8	33	1.5	1.5	12	2:1	150	BH3
MLB0208G3020	2-8	30	1.5	2	15	2:1	100	BH2
MLB0208G3220	2-8	32	1.5	2	20	2:1	120	BH3
MLB0208G3216	2-8	32	2.5	1.6	12	2:1	120	BH3
MLB0208G3620	2-8	36	2	2	14	2:1	120	BH3
MLB0208G3920	2-8	39	2	2	18	2:1	120	BH4
MLB0208G4035	2-8	40	2	3.5	12	2:1	120	BH4
MLB0208G4220	2-8	42	2	2	15	2:1	120	BH4
MLB0208G4230	2-8	42	1.5	3	20	2:1	120	BH4
MLB0208G4530	2-8	45	1.5	3	20	2:1	120	BH4
MLB0210G2045	2-10	20	2	4.5	12	2:1	120	BH2
MLB0210G2047	2-10	20	2	4.7	18	2:1	120	BH2
MLB0210G2825	2-10	28	2.5	2.5	10	2:1	120	BH2
MLB0210G3045	2-10	30	2.5	4.5	12	2:1	120	BH3
MLB0210G3047	2-10	30	2.5	4.7	18	2:1	120	BH3
MLB0210G3220	2-10	32	2.5	2	12	2:1	120	BH3
MLB0210G3625	2-10	36	2	2.5	14	2:1	120	BH3
MLB0212G1855	2-12	18	2.5	5.5	18	2:1	120	BH2
MLB0212G1950	2-12	19	2	5	12	2:1	120	BH2
MLB0212G2655	2-12	26	2.5	5.5	18	2:1	120	BH2
MLB0212G2750	2-12	27	2	5	12	2:1	120	BH2
MLB0212G2830	2-12	28	2.5	3	10	2:1	120	BH2
MLB0212G3030	2-12	30	2	3	12	2:1	120	BH2
MLB0212G3250	2-12	32	2	5	14	2:1	120	BH3
MLB0212G3555	2-12	35	2.5	5.5	18	2:1	120	BH3
MLB0212G3650	2-12	36	2.5	5	12	2:1	120	BH3
MLB0218G0745	2-18	7	1.5	4.5	8	2:1	120	BH2
MLB0218G1050	2-18	10	2	5	11	2:1	150	BH2



WIDE BAND LOW NOISE AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MLB0218G1235	2-18	12	1.8	3.5	12	1.6:1	150	BH2
MLB0218G1445	2-18	14	1.5	4.5	9	2:1	120	BH2
MLB0218G1535	2-18	15	2	3.5	15	2:1	100	BH2
MLB0218G1750	2-18	17	2	5	12	2.2:1	200	BH2
MLB0218G1760	2-18	17	2.5	6	15	2.3:1	100	BH2
MLB0218G1860	2-18	18	2.5	6	12	2.3:1	100	BH2
MLB0218G2535	2-18	25	2.5	3.5	15	2:1	180	BH2
MLB0218G2335	2-18	23	1	3.5	10	2:1	120	BH2
MLB0218G2040	2-18	20	2	4	15	2:1	220	BH2
MLB0218G2045	2-18	20	2	4.5	18	2:1	120	BH2
MLB0218G2035	2-18	20	2.5	3.5	10	2:1	120	BH2
MLB0218G2135	2-18	21	1.5	3.5	13	2:1	150	BH2
MLB0218G2045	2-18	20-27	2	4.5	10	2.2:1	120	BH2
MLB0218G2235	2-18	22	2	3.5	8	2:1	100	BH2
MLB0218G2360	2-18	23	2	6	15	2.3:1	100	BH2
MLB0218G2460	2-18	24	3	6	12	2.3:1	100	BH2
MLB0218G2535	2-18	25	2.5	3.5	15	2:1	180	BH2
MLB0218G2545	2-18	25	1.5	4.5	16	2:1	170	BH3
MLB0218G2840	2-18	28	3	4	10	2.3:1	120	BH2
MLB0218G2850	2-18	28	2	5	10	2.2:1	200	BH3
MLB0218G2960	2-18	29	2.5	6	15	2.3:1	100	BH3
MLB0218G3028	2-18	30	1.8	2.8	10	2:1	120	BH3
MLB0218G3035	2-18	30	1.8	3.5	10	2:1	270	BH2
MLB0218G3060	2-18	30	3.5	6	12	2.3:1	100	BH3
MLB0218G3145	2-18	31	2	4.5	15	2.2:1	100	BH3
MLB0218G3235	2-18	32	2.5	3.5	12	2:1	150	BH3
MLB0218G3560	2-18	35	3.75	6	12	2.3:1	100	BH4
MLB0218G4035	2-18	40	2.5	3.5	10	2.5:1	300	BH4
MLB0218G5050	2-18	50	3	5	10	2:1	200	BH6
MLB0218G5035	2-18	50	2.5	3.5	10	2.2:1	360	DH6
MLB0618G1540	6-18	15-17	1.5	4	13	2:1	200	BH2
MLB0305G2035	3-5	20	1	3.5	10	1.5:1	80	BH2
MLB0305G3020	3-5	30	0.75	2	12	1.6:1	150	BH2
MLB0304G5011	3.4-4.8	50	1	1.1	10	2:1	400	BH4
MLB0314G1835	3.7-14.5	18	2	3.5	9	2:1	120	BH2
MLB0314G1830	3.7-14.5	18	2.5	3	10	2:1	120	BH2
MLB0314G1940	3.7-14.5	19	2	4	18	2:1	120	BH2



WIDE BAND LOW NOISE AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MLB0314G2040	3.7-14.5	20	2	4	12	2:1	120	BH2
MLB0314G2430	3.7-14.5	24	2.5	3	12	2:1	120	BH2
MLB0314G2940	3.7-14.5	29	2.5	4	18	2:1	120	BH3
MLB0314G3040	3.7-14.5	30	2.5	4	12	2:1	120	BH3
MLB0314G3940	3.7-14.5	39	3	4	18	2:1	120	BH3
MLB0314G4040	3.7-14.5	40	3	4	12	2:1	120	BH3
MLB0406G3025	4-6	30	1	2.5	10	2:1	120	BH2
MLB0408G2015	4-8	20	1	1.5	12	2:1	120	BH2
MLB0408G2115	4-8	21	1.5	1.5	8	2.2:1	110	BH2
MLB0408G2330	4-8	23	1	3	18	2:1	110	BH2
MLB0408G2430	4-8	24	1	3	12	2:1	110	BH2
MLB0408G2530	4-8	25	1	3	15	2:1	120	BH2
MLB0408G2811	4-8	28	1.5	1.1	9	2:1	110	BH3
MLB0408G2912	4-8	29	1.5	1.2	10	2:1	120	BH3
MLB0408G2915	4-8	29	1.5	1.5	15	2.2:1	110	BH3
MLB0408G3012	4-8	30	1	1.2	12	2:1	100	BH3
MLB0408G3014	4-8	30	1	1.4	14	2:1	110	BH3
MLB0408G3025	4-8	30	1.5	2.5	18	2:1	110	BH3
MLB0408G3312	4-8	33	1.5	1.2	10	2:1	150	BH3
MLB0408G3130	4-8	31	1.5	3	18	2:1	110	BH3
MLB0408G3218	4-8	32	1	1.8	12	2:1	110	BH3
MLB0408G3230	4-8	32	1.5	3	12	2:1	110	BH3
MLB0408G3711	4-8	37	1	1.1	10	2:1	125	BH2
MLB0408G3713	4-8	37	1.25	1.3	10	2:1	110	BH3
MLB0408G3930	4-8	39	1.5	3	18	2:1	110	BH3
MLB0408G4030	4-8	40	1.5	3	12	2:1	110	BH3
MLB0410G1025	4-10.5	10	1.5	2.5	8	2:1	75	BH2
MLB0410G1820	4-10.5	18	1.5	2	9	2:1	120	BH2
MLB0410G1925	4-10.5	19	1.5	2.5	10	2:1	140	BH2
MLB0410G2030	4-10.5	20	1.5	3	14	2:1	120	BH2
MLB0410G2240	4-10.5	22	1.25	4	18	2:1	120	BH2
MLB0410G2340	4-10.5	23	1.25	4	12	2:1	120	BH2
MLB0410G2825	4-10.5	28	2	2.5	10	2:1	120	BH2
MLB0410G3015	4-10.5	30	1.5	1.5	10	2:1	110	BH2
MLB0410G3340	4-10.5	33	1.25	4	18	2:1	120	BH2
MLB0410G3440	4-10.5	34	1.5	4	12	2:1	120	BH2
MLB0410G4325	4-10.5	43	1.5	2.5	15	2:1	120	BH4



WIDE BAND LOW NOISE AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MLB0412G2140	4-12	21	1.5	4	18	2:1	120	BH2
MLB0412G2240	4-12	22	1.5	4	12	2:1	120	BH2
MLB0412G2825	4-12	28	2	2.5	9	2:1	120	BH2
MLB0412G3016	4-12	30	1.6	1.6	10	2:1	150	BH2
MLB0412G3030	4-12	30	2.5	3	12	2:1	150	BH2
MLB0412G3230	4-12	32	1.75	3	14	2:1	120	BH2
MLB0412G3240	4-12	32	2	4	18	2:1	120	BH2
MLB0412G3340	4-12	33	2	4	12	2:1	120	BH2
MLB0412G4340	4-12	43	2.5	4	18	2:1	120	BH4
MLB0412G4440	4-12	44	2.5	4	12	2:1	120	BH4
MLB0412G2225	4-12	22	1	2.5	10	2:1	120	BH2
MLB0418G2050	4-18	20	3.5	5	10	2.5:1	120	BH2
MLB0510G2718	5-10	27	1.25	1.8	10	2:1	120	BH2
MLB0510G2820	5-10	28	1.5	2	10	2:1	120	BH2
MLB0510G3018	5-10	30	2	1.8	9	2:1	120	BH2
MLB0510G3220	5-10	32	1.25	2	14	2:1	120	BH2
MLB0513G2135	5-13	21	1.5	3.5	17	2:1	120	BH2
MLB0513G2830	5-13	28	1.5	3	10	2:1	120	BH2
MLB0513G3025	5-13	30	1.5	2.5	14	2:1	120	BH2
MLB0513G3135	5-13	31	1.5	3.5	19	2:1	120	BH2
MLB0513G3225	5-13	32	1.5	2.5	14	2:1	120	BH2
MLB0513G4335	5-13	43	1.5	3.5	19	2:1	120	BH3
MLB0513G5235	5-13	52	1.5	3.5	19	2:1	120	BH4
MLB0513G2025	5-13	20	1.5	2.5	15	2:1	120	BH2
MLB0513G1025	5-13	10	1.25	2.5	10	2:1	100	BH2
MLB0515G1940	5-15	19	1.5	4	18	2:1	120	BH2
MLB0515G2040	5-15	20	1.5	4	12	2:1	120	BH2
MLB0515G2825	5-15	28	2	2.5	10	2:1	120	BH2
MLB0515G2940	5-15	29	2	4	18	2:1	120	BH2
MLB0515G3040	5-15	30	2	4	12	2:1	120	BH2
MLB0515G3030	5-15	30	2.5	3	9	2:1	120	BH2
MLB0515G3225	5-15	32	2	2.5	12	2:1	120	BH3
MLB0515G3940	5-15	39	2.5	4	18	2:1	120	BH3
MLB0515G4040	5-15	40	2.5	4	12	2:1	120	BH3
MLB0607G6010	6-7	60	1	1	10	1.5:1	400	TBD
MLB0610G2630	6-10	26	1.5	3	15	2:1	120	BH2
MLB0610G3014	6-10	30	1.5	1.4	10	2:1	120	BH2



WIDE BAND LOW NOISE AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MLB0612G1025	6-12	10	1	2.5	8	2:1	120	BH2
MLB0612G1060	6-12	10	1.5	6	10	1.8:1	120	BH2
MLB0612G1935	6-12	19	1	3.5	18	2:1	120	BH2
MLB0612G2035	6-12	20	1.5	3.5	12	2:1	120	BH2
MLB0612G2125	6-12	21	1.5	2.5	10	2:1	120	BH2
MLB0612G2219	6-12	22	1	1.9	10	2:1	120	BH2
MLB0612G2735	6-12	27	1.25	3.5	18	2:1	120	BH2
MLB0612G2835	6-12	28	1.25	3.5	12	2:1	120	BH2
MLB0612G2817	6-12	28	1.5	1.7	10	2:1	120	BH2
MLB0612G2925	6-12	29	1.5	2.5	10	2:1	120	BH2
MLB0612G3020	6-12	30	1.5	2	14	2:1	120	BH2
MLB0612G3315	6-12	33	1.5	1.5	10	2:1	120	BH2
MLB0612G3015	6-12	30	1.5	1.5	10	2:1	120	BH2
MLB0612G3222	6-12	32	2	2.2	9	2:1	120	BH2
MLB0612G3735	6-12	37	1.5	3.5	18	2:1	120	BH2
MLB0612G3835	6-12	38	1.5	3.5	12	2:1	120	BH4
MLB0612G4025	6-12	40	1.5	2.5	10	2:1	120	BH4
MLB0612G5025	6-12	50	1.5	2.5	10	2:1	120	BH4
MLB0618G1026	6-18	10	1.5	2.6	8	2:1	120	BH2
MLB0618G1430	6-18	14	1.5	3	13	2:1	120	BH2
MLB0618G1540	6-18	15-17	1.5	4	13	2:1	200	BH2
MLB0618G1635	6-18	16-18	1.6	3.5	15	2:1	200	BH2
MLB0618G1740	6-18	17	1.5	4	18	2:1	120	BH2
MLB0618G1840	6-18	18	1	4	12	2:1	120	BH2
MLB0618G2025	6-18	20-25	2	2.5	10	2:1	100	BH2
MLB0618G2030	6-18	20	2	3	10	2:1	120	BH2
MLB0618G2135	6-18	21	1.5	3.5	13	2:1	150	BH2
MLB0618G2525	6-18	25	1.5	2.5	13	2:1	120	BH2
MLB0618G2527	6-18	25	1.5	2.7	8	2:1	120	BH2
MLB0618G2540	6-18	25-27	1.5	4	13	2:1	200	BH2
MLB0618G2930	6-18	29	1.5	3	15	1.8:1	120	BH2
MLB0618G2630	6-18	26	1.5	3	15	2:1	120	BH2
MLB0618G2640	6-18	26	2	4	18	2:1	120	BH2
MLB0618G2740	6-18	27	2	4	12	2:1	120	BH2
MLB0618G2818	6-18	28	2	1.8	10	2:1	120	BH2
MLB0618G2825	6-18	28	1.5	2.5	15	2:1	120	BH2
MLB0618G3318	6-18	33	1.5	1.8	10	2:1	120	BH2



WIDE BAND LOW NOISE AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MLB0618G3018	6-18	30	1.5	1.8	15	2:1	120	BH2
MLB0618G3020	6-18	30	1.5	2	15	2:1	290	BH2
MLB0618G3025	6-18	30	1.5	2.5	10	2.2:1	250	BH3
MLB0618G3219	6-18	32	2.5	1.9	12	2:1	120	BH3
MLB0618G3230	6-18	32	1.5	3	15	2:1	120	BH3
MLB0618G3225	6-18	32	1.5	2.5	15	2:1	120	BH3
MLB0618G3519	6-18	35	2.5	1.9	12	2:1	120	BH3
MLB0618G3425	6-18	34	2	2.5	10	2:1	170	BH3
MLB0618G3525	6-18	35	1.5	2.5	15	2:1	120	BH3
MLB0618G3540	6-18	35	2.5	4	18	2:1	120	BH3
MLB0618G3550	6-18	35	2.5	5	17	2:1	400	BH3
MLB0618G3640	6-18	36	2.5	4	12	2:1	120	BH3
MLB0618G3730	6-18	37	1.5	3	17	2:1	120	BH4
MLB0618G3820	6-18	38	2.5	2	10	2:1	250	BH4
MLB0618G3825	6-18	38	1.5	2.5	15	2:1	120	BH3
MLB0618G3830	6-18	38	1.5	3	15	2:1	120	BH4
MLB0618G3940	6-18	39	3	4	18	2:1	120	BH4
MLB0618G4030	6-18	40	1.5	3	5	1.8:1	120	BH4
MLB0618G4040	6-18	40	3	4	12	2:1	120	BH4
MLB0618G4225	6-18	42	2	2.5	10	2:1	120	BH4
MLB0618G4228	6-18	42	2	2.8	15	2:1	280	BH4
MLB0618G4425	6-18	44	1.5	2.5	15	2:1	250	BH4
MLB0618G4430	6-18	44	1.5	3	15	2:1	120	BH4
MLB0618G5030	6-18	50	1.5	3	15	2:1	120	BH4
MLB0620G1730	6-20	17	0.5	3	13	1.8:1	150	BH2
MLB0618G2930	6.8-18	29-31	1	3	10	1.5:2	150	BH2
MLB0712G1025	7-12	10	1	2.5	9	2:1	120	BH2
MLB0712G1825	7-12	18	1.5	2.5	15	2:1	120	BH2
MLB0712G2230	7-12	22	1.5	3	20	2:1	120	BH2
MLB0712G2818	7-12	28	1.5	1.8	10	2:1	120	BH2
MLB0712G2825	7-12	28	1.5	2.5	15	2:1	120	BH2
MLB0712G3220	7-12	32	1.5	2	14	2:1	120	BH2
MLB0712G3630	7-12	36	1.5	3	20	2:1	120	BH2
MLB0712G3825	7-12	38	1.5	2.5	15	2:1	120	BH2
MLB0712G4725	7-12	47	1.5	2.5	15	2:1	120	BH2
MLB0812G1813	8-12	18	1.25	1.3	7	2:1	120	BH2
MLB0812G1935	8-12	19	1	3.5	18	2:1	120	BH2



WIDE BAND LOW NOISE AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR Max	Current@ 12-15 VDC (mA. Typ)	Case Type
MLB0812G2025	8-12	20	1	2.5	12	2:1	120	BH2
MLB0812G2225	8-12	22	1	2.5	10	2:1	120	BH2
MLB0812G2211	8-12	22	1.5	1.1	10	2:1	120	BH2
MLB0812G2522	8-12	25	1	2.2	10	1.8:1	120	BH2
MLB0218G2525	8-12	25	1.5	2.5	15	2:1	250	BH2
MLB0812G2725	8-12	27	1.25	2.5	18	2:1	200	BH2
MLB0812G2813	8-12	28	1.5	1.3	14	2:1	120	BH2
MLB0812G2835	8-12	28	1.25	3.5	12	2:1	120	BH2
MLB0812G3013	8-12	30	1.25	1.3	10	2:1	120	BH2
MLB0812G3213	8-12	32	1	1.3	10	2:1	150	BH2
MLB0812G3214	8-12	32	1	1.4	10	2:1	120	BH2
MLB0812G3520	8-12	35	1.5	2	18	2:1	120	BH2
MLB0812G3635	8-12	36	1.5	3.5	12	2:1	120	BH2
MLB0812G4135	8-12	41	1.75	3.5	18	2:1	120	BH4
MLB0812G4225	8-12	42	1.75	2.5	12	2:1	120	BH4
MLB0812G3018	8-12.4	30	1.5	1.8	12	2:1	100	BH2
MLB0814G2430	8-14	24	1.5	3	15	2:1	150	BH2
MLB0814G3040	8-14	30	0.5	4	25	1.8:1	200	BH2
MLB0818G1840	8-18	18	1.5	4	18	2:1	120	BH2
MLB0818G1940	8-18	19	1.5	4	12	2:1	120	BH2
MLB0818G2028	8-18	20	1.5	2.8	10	2:1	120	BH2
MLB0818G2525	8-18	25	2	2.5	16	2:1	120	BH2
MLB0618G3025	8-18	30	2	2.5	16	2:1	120	BH2
MLB0818G2740	8-18	27	1.75	4	18	2:1	120	BH2
MLB0818G2840	8-18	28	1.75	4	12	2:1	120	BH2
MLB0818G2817	8-18	28	2	1.7	10	2:1	120	BH2
MLB0818G3020	8-18	30	2	2	12	2:1	120	BH3
MLB0818G3219	8-18	32	2.5	1.9	9	2:1	120	BH3
MLB0818G3640	8-18	36	2	4	18	2:1	120	BH3
MLB0818G3622	8-18	36	2	2.2	10	2:1	120	BH3
MLB0818G3740	8-18	37	2	4	12	2:1	120	BH3
MLB0818G4040	8-18	40	1.75	4	18	2:1	120	BH4
MLB0818G4140	8-18	41	2.25	4	12	2:1	120	BH4
MLB0810G1425	8.75-10.25	14	1	2.5	10	1.8:1	100	BH2
MLB0912G2035	9-12	20	1	3.5	10	1.5:1	45	BH2
MLB1012G5013	10-12	50	2.5	1.3	10	1.5:1	400	BH4
MLB1013G4540	10-13	45	1	4	15	1.55:1	100	BH4



WIDE BAND LOW NOISE AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MLB1015G1030	10-15	10	0.5	3	13	1.8:1	100	BH2
MLB1015G2530	10-15	25	1.5	3	10	2:1	100	BH2
MLB1013G2530	10.5-13	25-26	1	3	13	1.8:2	150	BH2
MLB1012G1520	10.7-12.75	15-16	0.4	2	15	1.7:1.6	150	BH2
MLB1012G2015	10.7-12.75	20	0.4	1.5	12	1.4:1.6	150	BH2
MLB1013G1425	10.7-13.7	14-16	1	2.5	10	2:1	150	BH2
MLB1013G1525	10.7-13.7	15	1	2.5	10	2:1	150	BH2
MLB1218G1528	12-18	15	1	2.8	13	2:1	120	BH2
MLB1218G1635	12-18	16	1	3.5	10	2:1	120	BH2
MLB1218G1940	12-18	19	1.25	4	18	2:1	120	BH2
MLB1218G2020	12-18	20	1.5	2	12	2:1	350	BH2
MLB1218G2022	12-18	20	2	2.2	12	2:1	120	BH2
MLB1218G2040	12-18	20	1	4	12	2:1	120	BH2
MLB1218G2028	12-18	20	1	2.8	13	2:1	120	BH2
MLB1218G2420	12-18	24	1.5	2	10	2:1	120	BH2
MLB1218G2522	12-18	25	1	2.2	10	1.8:1	200	BH2
MLB1218G2628	12-18	26	1	2.8	15	2:1	120	BH2
MLB1218G2840	12-18	28	1.5	4	18	2:1	120	BH2
MLB1218G2816	12-18	28	1.5	1.6	10	2:1	120	BH2
MLB1218G2920	12-18	29	1	2	12	2:1	120	BH2
MLB1218G2922	12-18	29	1	2.2	12	2:1	120	BH2
MLB1218G3025	12-18	30	1.5	2.5	12	2:1	100	BH2
MLB1218G3020	12-18	30	1.5	2	12	2:1	120	BH2
MLB1218G3228	12-18	32	1	2.8	15	2:1	120	BH2
MLB1218G3219	12-18	32	1.5	1.9	14	2:1	120	BH3
MLB1218G3618	12-18	36	1.5	1.8	10	2:1	120	BH3
MLB1218G3740	12-18	37	1.75	4	18	2:1	120	BH3
MLB1218G3828	12-18	38	1	2.8	15	2:1	120	BH3
MLB1218G3840	12-18	38	1.5	4	12	2:1	120	BH3
MLB1218G4225	12-18	42	1.75	2.5	12	2:1	120	BH4
MLB1218G4428	12-18	44	1	2.8	15	2:1	120	BH4
MLB1723G5030	17-23	50	1	3	12	2:1	240	BH4
MLB1822G2530	18-22.4	25-27	1	3	13	1.8:2	150	BH2
MLB1826G3028	18-26	30	1.8	2.8	10	2:1	150	BH2
MLB1826G3035	18-26	30	2	3.5	10	2.4:1	75	BH2
MLB1826G2030	18-26.5	20	1.5	3	15	2:1	100	BH2

Note:Miniature size,drop-in ,customized specification is also available

FEATURES

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Miniature Sizes, Field Removable connector
- Compact/Rugged Thin-Film Construction

APPLICATIONS

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics



SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MBM0502G3020	0.5-2	30	1.5	3.5	20	2:1	250	DH4
MBM0518G1624	0.5-18	16	2	6	24	2:1	500	DH4
MBM0806G3025	0.8-6	30	2	5	25	2:1	500	DH4
MBM0102G2920	1-2	29	1.3	3	20	2:1	150	DH4
MBM0104G2620	1-4	26	1.5	2	20	2:1	240	BH3
MBM0118G2120	1-18	21	2	5.5	20	2.2:1	250	DH4
MBM0118G2820	1-18	28	2	5	20	2.2:1	150	DH4
MBM0118G3520	1-18	35	2.5	5.5	20	2.2:1	150	DH4
MBM0204G1820	2-4	18	1.4	4.5	20	2:1	150	DH4
MBM0204G2326	2-4	23	1.5	5	26	2:1	8V/200	BH8
MBM0204G2327	2-4	23	1.5	5	27	2:01	250	BH8
MBM0204G2523	2-4	25	1.3	4	23	2:1	100	DH4
MBM0204G2530	2-4	25	1.5	5	30	2:1	100	BH8
MBM0204G2827	2-4	28	1.5	5	27	2:1	450	BH8
MBM0204G2527	2-4	25	1.5	5	27	2:1	100	BH8
MBM0204G3120	2-4	31	1.5	4	20	2:1	150	DH4
MBM0204G3520	2-4	35	1.5	4	20	2:1	150	DH4
MBM0204G3123	2-4	31	1.5	4	23	2:1	100	DH4
MBM0204G3223	2-4	32	1.8	3.5	23	2:1	100	DH4
MBM0204G3527	2-4	35	1.75	5.5	27	2:1	100	BH8
MBM0204G3530	2-4	35	2	5	30	2:1	100	BH8
MBM0204G3820	2-4	38	1.5	4	20	2:1	100	DH4
MBM0204G3823	2-4	38	1.8	4	23	2:1	100	DH4
MBM0204G4033	2-4	40	2	5	33	2:1	100	BH8
MBM0204G3020	2-4	30	1.2	3.5	20	2:1	250	DH4
MBM0206G2423	2-6	24	1.5	6	23	2:1	500	DH4



WIDE BAND MEDIUM POWER AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MBM0206G2523	2-6	25	1.5	5	23	2:1	100	DH4
MBM0206G2527	2-6	25	1.5	5	27	2:1	100	BH8
MBM0206G2529	2-6	25	1.5	5	29	2:1	100	BH8
MBM0206G3030	2-6	30	2	5	30	2:1	100	BH8
MBM0206G3430	2-6	34	2	5	30	2:1	1100	BH8
MBM0206G3530	2-6	35	1.75	5.5	30	2:1	150	DH6
MBM0206G3527	2-6	35	2	5	27	2:1	150	DH4
MBM0206G3523	2-6	35	2	5	23	2:1	150	DH4
MBM0208G1820	2-8	18	1.8	4.5	20	2:1	100	DH4
MBM0208G2423	2-8	24	1.8	4	23	2:1	100	DH4
MBM0208G3020	2-8	30	1.5	4	20	2:1	250	DH4
MBM0208G3230	2-8	32	2	4	30	2:1	100	BH8
MBM0208G3820	2-8	38	2	4.5	20	2:1	100	DH4
MBM0218G1317	2-18	13	2	6	17	2:1	200	BH2
MBM0218G1621	2-18	16-18	1.25	6	21	2:1	500	DH4
MLB0218G1822	2-18	18	2	7	22	2.2:1	380	DH4
MBM0218G2123	2-18	21	2	6	23	2:1	350	DH4
MBM0218G2820	2-18	28	2	5	20	2:1	300	DH4
MBM0218G3020	2-18	30	2	5	20	2:1	300	DH4
MBM0218G3023	2-18	30	1.5	6	23	2.2:1	400	DH4
MBM0218G3520	2-18	35	2.5	5.5	20	2.2:1	300	BH3
MNL0220G2123	2-20	21	2	6	23	2:1	300	DH4
MBM0408G1020	4-8	10	1.5	5	20	2:1	200	DH4
MBM0408G2523	4-8	25	1.5	3.5	23	2:1	100	DH4
MBM0408G2530	4-8	25	1.5	4	30	2:1	1000	BH8
MBM0408G2620	4-8	26	1.5	2	20	2:1	240	BH8
MBM0408G3220	4-8	32	1.8	3.5	20	2:1	100	DH4
MBM0408G3823	4-8	38	1.8	3.5	23	2:1	100	DH4
MBM0408G3820	4-8	38	2	4	20	2:1	100	DH4
MBM0408G3020	4-8	30	1.5	4	20	2:1	250	DH4
MBM0418G2730	4-18	27-30	2	6	30	2:1	1300	BH8
MBM0510G2818	5.75-10.25	28	1.5	6	18	2:1	250	BH3
MBM0612G2427	6-12	24	1.5	6	27	2:1	100	BH8
MBM0612G2429	6-12	24	1.5	6.5	29	2:1	200	BH8
MBM0612G3020	6-12	30	1.5	4	20	2:1	250	DH4
MBM0612G3027	6-12	30	1.75	6	27	2:1	100	BH8
MBM0612G3023	6-12	30	1.75	6	23	2:1	100	DH4



WIDE BAND MEDIUM POWER AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MBM0612G3030	6-12	30	1.75	6.5	30	2:1	100	BH8
MBM0612G3523	6-12	35	1.5	6	23	2:1	100	DH4
MBM0612G4027	6-12	40	2	6	27	2:1	100	BH8
MBM0612G4023	6-12	40	2	6	23	2:1	100	DH4
MBM0612G4029	6-12	40	2	6.5	29	2:1	100	BH8
MBM0618G1820	6-18	18	1.8	4.5	20	2:1	100	DH4
MBM0618G2223	6-18	22	1.5	6	23	2:1	100	DH4
MBM0618G2420	6-18	24	1.5	4.2	20	2:1	100	DH4
MBM0618G2527	6-18	25	1.5	6	27	2:1	100	DH4
MBM0618G2529	6-18	25	2.75	5	29	2:1	100	BH8
MBM0618G2530	6-18	25	2	5.5	30	2:1	1300	BH8
MBM0618G2627	6-18	26	2	6	27	2:1	100	BH8
MBM0618G2824	6-18	28	1.5	6	24	2:1	500	DH4
MBM0618G3023	6-18	30	1.75	6	23	2:1	100	DH4
MBM0618G3020	6-18	30	1.8	5	20	2:1	280	DH4
MBM0618G3027	6-18	30	2.5	6	27	2:1	100	BH8
MBM0618G3030	6-18	30	3	6	30	2:1	100	BH8
MBM0618G3120	6-18	31	1.8	4.2	20	2:1	100	DH4
MBM0618G3131	6-18	31	2	6	31	2:1	2400	BH8
MBM0618G3520	6-18	35	2	4.5	20	2:1	400	DH4
MBM0618G3530	6-18	35-40	2.5	5	30	2:1	1500	BH8
MBM0618G3823	6-18	38	2	6	23	2:1	100	DH4
MBM0618G3820	6-18	38	2.2	4.5	20	2:1	100	DH4
MBM0618G3827	6-18	38	2	5.5	27	2:1	100	BH8
MBM0618G3829	6-18	38	3.5	5	29	2:1	100	BH8
MBM0618G4023	6-18	40	2.5	8	23	2:1	450	DH6
MBM0618G4520	6-18	45	2.2	4.5	20	2:1	100	DH6
MBM0810G3531	8-10	35	2	6	31	2:1	600	BH8
MBM0812G1023	8-12	10-15	1.5		21-23	2:1	300	BH2
MBM0812G1820	8-12	18	1.8	4.5	20	2:1	100	BH3
MBM0812G2230	8-12	22	1.5	6	30	2:1	850	BH8
MBM0812G2420	8-12	24	1.4	3.5	20	2:1	100	DH4
MBM0812G2620	8-12	26	1.5	2	20	2:1	240	DH4
MBM0812G3020	8-12	30	1	5	20	2:1	350	DH4
MBM0812G3230	8-12	32-35	1.5	4	30	2:1	1200	BH8
MBM0812G3920	8-12	39	1.8	4	20	2:1	100	DH4
MBM0812G4520	8-12	45	1.8	5	20	2:1	100	DH6



WIDE BAND MEDIUM POWER AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MBM0812G2423	8-12.4	24	1	5.5	23	2:1	100	DH4
MBM0812G2427	8-12.4	24	1.5	6	27	2:1	100	BH8
MBM0812G2429	8-12.4	24	1.75	6	29	2:1	100	BH8
MBM0812G3023	8-12.4	30	1.5	5	23	2:1	100	DH4
MBM0812G3027	8-12.4	30	1.75	4	27	2:1	100	BH8
MBM0812G3823	8-12.4	38	1.75	5	23	2:1	500	DH4
MBM0812G3827	8-12.4	38	2	4.5	27	2:1	100	BH8
MBM0812G3829	8-12.4	38	2.25	6	29	2:1	100	BH8
MBM0818G1820	8-18	18	1.8	4.5	20	2:1	100	DH4
MBM0818G2025	8-18	20-25	2	5	25	2:1	800	BH8
MBM0818G2423	8-18	24	1.25	1.5	23	2:1	100	DH4
MBM0818G2420	8-18	24	1.8	4	20	2:1	100	BH3
MBM0818G2627	8-18	26	2	5.5	27	2:1	100	BH8
MBM0818G2829	8-18	28	2.5	5.5	29	2:1	100	BH8
MBM0818G3023	8-18	30	1.5	6	23	2:1	100	DH4
MBM0818G3220	8-18	32	1.8	4	20	2:1	200	DH4
MBM0818G3427	8-18	34	2	6	27	2:1	100	BH8
MBM0818G3430	8-18	34	3	6	30	2:1	100	BH8
MBM0818G3823	8-18	38	1.75	7.5	23	2:1	100	DH4
MBM0818G3920	8-18	39	2	4.5	20	2:1	200	DH4
MBM0818G4027	8-18	40	2.5	6.5	27	2:1	100	BH8
MBM0818G4029	8-18	40	3	6	29	2:1	100	BH8
MBM0818G4520	8-18	45	2	4.5	20	2:1	200	DH6
MBM1018G3520	10-18	35	2.5	5.5	20	2.2:1	150	DH4
MBM1012G2022	10.7-12.75	20-22	1.4	2	22	1.7:1.6	200	DH4
MBM1217G2822	12-17	28	1.5	6	22	2:1	400	DH4
MBM1218G1626	12-18	16-17	1.5	6	26	2:1	800	BH8
MBM1218G2025	12-18	20	2.5	6	25	2:1	500	DH4
MBM1218G2620	12-18	26	1.8	2.5	20	2:1	300	DH4
MBM1218G2827	12-18	28	2	5.5	27	2:1	200	BH8
MBM1218G2830	12-18	28	2	4.5	30	2:1	200	BH8
MBM1218G3023	12-18	30	1.5	5	23	2:1	200	DH4
MBM1218G3623	12-18	36	1.75	5	23	2:1	200	DH4
MBM1218G3827	12-18	38	2.5	5	27	2:1	200	BH8
MBM1218G3830	12-18	38	2	2.5	30	2:1	200	BH8
MBM1218G4520	12-18	45	1.25	6	20	2:1	200	DH4
MBM1415G3030	14-15	30	0.5	3	30	1.8:1	1300	BH8



WIDE BAND MEDIUM POWER AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MBM1425G2321	14-25	23	2.5	5	21	2.2:1	350	DH4
MBM1518G3531	15-18	35	2	6	31	2:1	600	BH8
MBM2125G2922	21-25	29	2	6	22	2:1	400	DH4
MBM1617G3030	16-17	30	0.5	3	30	1.8:1	1300	BH8

Note: Miniture size, drop-in , customized specification is also available



NARROW BAND LOW NOISE AMPLIFIER

FEATURES

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Miniature Sizes, Field Removable connector
- Compact/Rugged Thin-Film Construction



APPLICATIONS

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MNL005007G4014	0.5-0.7	40	0.75	1.4	12	2:1	200	BH3
MNL005007G4009	0.5-0.7	40	0.75	0.9	12	2:1	200	BH3
MNL005007G3014	0.5-0.7	30	0.5	1.4	12	2:1	100	BH2
MNL005007G3009	0.5-0.7	30	0.5	0.9	12	2:1	100	BH2
MNL006008G4014	0.6-0.8	40	0.75	1.4	12	2:1	200	BH3
MNL006008G4009	0.6-0.8	40	0.75	0.9	12	2:1	200	BH3
MNL006008G3014	0.6-0.8	30	0.5	1.4	12	2:1	150	BH2
MNL006008G3009	0.6-0.8	30	0.5	0.9	10	2:1	150	BH2
MNL007009G4014	0.7-0.9	40	0.75	1.4	12	2:1	200	BH3
MNL007009G4009	0.7-0.9	40	0.75	0.9	12	2:1	150	BH3
MNL007009G3014	0.7-0.9	30	0.5	1.4	12	2:1	150	BH2
MNL007009G3009	0.7-0.9	30	0.5	0.9	12	2:1	150	BH2
MNL007009G3008	0.7-0.9	30	0.5	0.8	12	2:1	175	BH2
MNL008010G3009	0.8-1.0	30	0.5	0.9	12	2:1	150	BH2
MNL009011G4014	0.9-1.1	40	0.75	1.4	12	2:1	200	BH3
MNL009011G4009	0.9-1.1	40	0.75	0.9	12	2:1	200	BH3
MNL009011G3014	0.9-1.1	30	0.5	1.4	12	2:1	150	BH2
MNL009011G3009	0.9-1.1	30	0.5	0.9	12	2:1	150	BH2
MNL009014G3007	0.95-1.45	30	0.5	0.7	10	1.5:1	250	BH2
MNL009013G3008	0.96-1.3	30	0.3	0.8	10	1.5:1	+5V/100	BH2
MNL010012G4014	1.0-1.2	40	0.75	1.4	12	2:1	200	BH3
MNL010012G4009	1.0-1.2	40	0.75	0.9	12	2:1	200	BH3
MNL010012G3014	1.0-1.2	30	0.5	1.4	12	2:1	200	BH2
MNL010012G3009	1.0-1.2	30	0.5	0.9	12	2:1	200	BH2
MNL011013G4009	1.1-1.3	40	0.75	0.9	12	2:1	150	BH3
MNL011013G4014	1.1-1.3	40	0.75	1.4	12	2:1	200	BH3
MNL011013G3014	1.1-1.3	30	0.5	1.4	12	2:1	150	BH3



NARROW BAND LOW NOISE AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MNL012014G4014	1.2-1.4	40	0.75	1.4	12	2:1	150	BH2
MNL012014G4009	1.2-1.4	40	0.75	0.9	12	2:1	150	BH3
MNL012014G3014	1.2-1.4	30	0.5	1.4	12	2:1	150	BH2
MNL012014G3009	1.2-1.4	30	0.5	0.9	12	2:1	150	BH2
MNL012014G3305	1.2-1.4	33	0.3	0.5	10	1.5:1	+5V/130	BH2
MNL012014G3005	1.2-1.4	30	0.3	0.5	10	1.5:1	+5V/130	BH2
MNL013015G4014	1.3-1.5	40	0.75	1.4	12	2:1	200	BH4
MNL013015G4009	1.3-1.5	40	0.75	0.9	12	2:1	200	BH4
MNL013015G3014	1.3-1.5	30	0.5	1.4	12	2:1	250	BH3
MNL013015G3009	1.3-1.5	30	0.5	0.9	12	2:1	250	BH3
MNL014016G4014	1.4-1.6	40	0.75	1.4	12	2:1	250	BH4
MNL014016G4009	1.4-1.6	40	0.75	0.9	12	2:0	250	BH4
MNL014016G3014	1.4-1.6	30	0.5	1.4	12	2:1	150	BH3
MNL014016G3009	1.4-1.6	30	0.5	0.9	12	2:1	150	BH3
MNL014016G3007	1.4-1.6	30	0.5	0.7	12	2:1	150	BH3
MNL014024G2808	1.4-2.4	28	1	0.8	10	2:1	120	BH2
MNL014018G6008	1.45-1.8	60	1.5	0.8	13	2:1	400	BH5
MNL015017G4014	1.5-1.7	40	0.75	1.4	12	2:1	250	BH4
MNL015017G4009	1.5-1.7	40	0.75	0.9	12	2:1	250	BH4
MNL015017G3014	1.5-1.7	30	0.5	1.4	12	2:1	150	BH3
MNL015017G3009	1.5-1.7	30	0.5	0.9	12	2:1	150	BH3
MNL015017G3007	1.5-1.7	30	0.5	0.7	12	2:1	150	BH3
MNL015015G3416	1.506-1.526	34	0.2	1.6	10	2:1	220	BH3
MNL016018G4014	1.6-1.8	40	0.75	1.4	12	2:1	150	BH4
MNL016018G4019	1.6-1.8	40	0.5	1.9	12	2:1	150	BH4
MNL016018G4007	1.6-1.8	40	0.5	0.7	13	1.8:1	180	BH4
MNL016018G3014	1.6-1.8	30	0.5	1.4	12	2:1	150	BH3
MNL016018G3009	1.6-1.8	30	0.5	0.9	12	2:1	150	BH3
MNL016018G3007	1.6-1.8	30	0.5	0.7	12	2:1	150	BH3
MNL017019G4014	1.7-1.9	40	0.75	1.4	12	2:1	250	BH4
MNL017019G4009	1.7-1.9	40	0.75	0.9	12	2:1	250	BH4
MNL017019G3014	1.7-1.9	30	0.5	1.4	12	2:1	150	BH3
MNL017019G3009	1.7-1.9	30	0.5	0.9	12	2:1	150	BH3
MNL017019G3006	1.7-1.9	30	0.5	0.6	12	2:1	150	BH3
MNL017021G3810	1.7-2.1	38±2	1	1	10	2:1	170	BH3
MNL018020G4014	1.8-2.0	40	0.75	1.4	12	2:1	250	BH4
MNL018020G4009	1.8-2.0	40	0.75	0.9	12	2:1	250	BH4



NARROW BAND LOW NOISE AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MNL018020G3014	1.8-2.0	30	0.5	1.4	12	2:1	150	BH3
MNL018020G3009	1.8-2.0	30	0.5	0.9	12	2:1	150	BH3
MNL018020G3006	1.8-2.0	30	0.5	0.6	12	2:1	150	BH3
MNL019021G4014	1.9-2.1	40	0.75	1.4	12	2:1	250	BH4
MNL019021G4009	1.9-2.1	40	0.75	0.9	12	2:1	250	BH4
MNL019021G3014	1.9-2.1	30	0.5	1.4	12	2:1	150	BH3
MNL019021G3009	1.9-2.1	30	0.5	0.9	12	2:1	150	BH3
MNL019021G3006	1.9-2.1	30	0.5	0.6	12	2:1	150	BH3
MNL020022G4015	2.0-2.2	40	0.75	1.5	12	2:1	250	BH4
MNL020022G4010	2.0-2.2	40	0.75	1	12	2:1	250	BH4
MNL020022G3015	2.0-2.2	30	0.5	1.5	12	2:1	200	BH3
MNL020022G3010	2.0-2.2	30	0.5	1	12	2:1	220	BH3
MNL020022G3007	2.0-2.2	30	0.5	0.7	12	2:1	250	BH3
MNL020023G5010	2-2.3	50	1	1	10	1.8:1	180	BH4
MNL020027G3030	2.0-2.7	30	1.5	3	10	2:1	150	BH3
MNL021023G4015	2.1-2.3	40	0.75	1.5	12	2:1	250	BH4
MNL021023G4010	2.1-2.3	40	0.75	1	12	2:1	250	BH4
MNL021023G3022	2.1-2.3	30	0.8	2.2	10	1.8:1	+5V/130	BH3
MNL021023G3015	2.1-2.3	30	0.5	1.5	12	2:1	150	BH3
MNL021023G3010	2.1-2.3	30	0.5	1	12	2:1	150	BH3
MNL021023G3007	2.1-2.3	30	0.5	0.7	12	2:1	150	BH3
MNL021025G5007	2.1-2.5	50	0.5	0.7	12	2:1	260	BH4
MNL021026G5015	2.17-2.65	50	1.5	1.5	10	2:1	400	BH4
MNL021026G5315	2.17-2.65	53	1.5	1.5	10	2:1	400	BH4
MNL022023G4508	2.2-2.3	45	0.5	0.8	5	1.5:1	220	BH4
MNL022023G4507	2.2-2.3	45	0.5	0.75	5	1.3:1	150	BH3
MNL022023G4506	2.2-2.3	45	0.5	0.6	5	1.3:1	280	BH4
MNL022024G4015	2.2-2.4	40	0.75	1.5	12	2:1	150	BH4
MNL022024G4010	2.2-2.4	40	0.75	1	12	2:1	150	BH4
MNL022024G3015	2.2-2.4	30	0.5	1.5	12	2:1	150	BH3
MNL022024G3010	2.2-2.4	30	0.5	1	12	2:1	150	BH3
MNL022024G3008	2.2-2.4	30	0.5	0.8	12	2:1	150	BH3
MNL022026G3308	2.2-2.6	33	0.4	0.8	10	1.6:1	+5V/130	BH3
MNL022026G3008	2.2-2.6	30	0.4	0.8	10	1.6:1	+5V/130	BH3
MNL022029G3001	2.2-2.9	30	0.5	100(K)	10	1.3:1	150	BH3
MNL022029G4512	2.2-2.9	45	1.5	1.29	5	1.4:1	150	BH3
MNL023025G4015	2.3-2.5	40	0.75	1.5	12	2:1	150	BH4



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Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MNL023025G4010	2.3-2.5	40	0.75	1	12	2:1	150	BH4
MNL023025G3015	2.3-2.5	30	0.5	1.5	12	2:1	120	BH3
MNL023025G3010	2.3-2.5	30	0.5	1	12	2:1	120	BH3
MNL023025G3008	2.3-2.5	30	0.5	0.8	12	2:1	150	BH3
MNL023027G2608	2.3-2.7	26	0.5	0.8	5	1.5:1	120	BH3
MNL023029G4508	2.3-2.9	45	0.5	0.8	5	1.5:1	200	BH4
MNL024026G4015	2.4-2.6	40	0.75	1.5	12	2:1	200	BH4
MNL024026G4010	2.4-2.6	40	0.75	1	12	2:1	200	BH4
MNL024026G3015	2.4-2.6	30	0.5	1.5	12	2:1	150	BH3
MNL024026G3010	2.4-2.6	30	0.5	1	12	2:1	150	BH3
MNL024026G3008	2.4-2.6	30	0.5	0.8	12	2:1	150	BH3
MNL025027G4015	2.5-2.7	40	0.75	1.5	12	2:1	250	BH4
MNL025027G4010	2.5-2.7	40	0.75	1	12	2:1	250	BH4
MNL025027G3025	2.5-2.7	30	0.8	2.5	10	1.8:1	130	BH3
MNL025027G3015	2.5-2.7	30	0.5	1.5	12	2:1	150	BH3
MNL025027G3010	2.5-2.7	30	0.5	1	12	2:1	150	BH3
MNL025027G3008	2.5-2.7	30	0.5	0.8	12	2:1	150	BH3
MNL026028G4015	2.6-2.8	40	0.75	1.5	12	2:1	150	BH2
MNL026028G4010	2.6-2.8	40	0.75	1	12	2:1	150	BH4
MNL026028G3015	2.6-2.8	30	0.5	1.5	12	2:1	150	BH3
MNL026028G3010	2.6-2.8	30	0.5	1	12	2:1	150	BH3
MNL026028G3008	2.6-2.8	30	0.5	0.8	12	2:1	150	BH3
MNL027029G4015	2.7-2.9	40	0.75	1.5	12	2:1	250	BH4
MNL027029G4010	2.7-2.9	40	0.75	1	12	2:1	250	BH4
MNL027029G3015	2.7-2.9	30	0.5	1.5	12	2:1	150	BH3
MNL027029G3010	2.7-2.9	30	0.5	1	12	2:1	150	BH3
MNL027029G3008	2.7-2.9	30	0.5	0.8	12	2:1	150	BH3
MNL027035G3308	2.7-3.5	33	0.5	0.8	10	1.5:1	150	BH3
MNL027035G3008	2.7-3.5	30	0.6	0.8	10	1.5:1	150	BH3
MNL028030G4016	2.8-3.0	40	0.75	1.6	12	2:1	150	BH4
MNL028030G4011	2.8-3.0	40	0.75	1.1	12	2:1	150	BH4
MNL028030G3016	2.8-3.0	30	0.5	1.6	12	2:1	150	BH3
MNL028030G3011	2.8-3.0	30	0.5	1.1	12	2:1	150	BH3
MNL028030G3008	2.8-3.0	30	0.5	0.8	12	2:1	150	BH3
MNL029031G4208	2.9-3.1	42	1.5	0.8	10	2:1	150	BH4
MNL029031G4016	2.9-3.1	40	0.75	1.6	12	2:1	150	BH4
MNL029031G4011	2.9-3.1	40	0.75	1.1	12	2:1	150	BH4



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Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MNL029031G3016	2.9-3.1	30	0.5	1.6	12	2:1	150	BH3
MNL029031G3011	2.9-3.1	30	0.5	1.1	12	2:1	150	BH3
MNL029031G3008	2.9-3.1	30	0.5	0.8	12	2:1	150	BH3
MNL030032G4016	3.0-3.2	40	0.75	1.6	12	2:1	150	BH4
MNL030032G4011	3.0-3.2	40	0.75	1.1	12	2:1	150	BH4
MNL030032G3016	3.0-3.2	30	0.5	1.6	12	2:1	150	BH3
MNL030032G3011	3.0-3.2	30	0.5	1.1	12	2:1	150	BH3
MNL030032G3008	3.0-3.2	30	0.5	0.8	12	2:1	150	BH3
MNL031033G4016	3.1-3.3	40	0.75	1.6	12	2:1	150	BH4
MNL031033G4011	3.1-3.3	40	0.75	1.1	12	2:1	150	BH4
MNL031033G3016	3.1-3.3	30	0.5	1.6	12	2:1	150	BH3
MNL031033G3011	3.1-3.3	30	0.5	1.1	12	2:1	150	BH3
MNL031033G3008	3.1-3.3	30	0.5	0.8	12	2:1	150	BH3
MNL031035G3208	3.1-3.5	32	0.5	0.8	10	1.5:1	180	BH3
MNL032034G4016	3.2-3.4	40	0.75	1.6	12	2:1	150	BH4
MNL032034G4011	3.2-3.4	40	0.75	1.1	12	2:1	150	BH4
MNL032034G3016	3.2-3.4	30	0.5	1.6	12	2:1	150	BH3
MNL032034G3011	3.2-3.4	30	0.5	1.1	12	2:1	150	BH3
MNL032034G3008	3.2-3.4	30	0.5	0.8	12	2:1	150	BH3
MNL033035G4016	3.3-3.5	40	0.75	1.6	12	2:1	150	BH4
MNL033035G4011	3.3-3.5	40	0.75	1.1	12	2:1	150	BH4
MNL033035G3016	3.3-3.5	30	0.5	1.6	12	2:1	150	BH3
MNL033035G3011	3.3-3.5	30	0.5	1.1	12	2:1	150	BH3
MNL033035G3008	3.3-3.5	30	0.5	0.8	12	2:1	150	BH3
MNL034036G4016	3.4-3.6	40	0.75	1.6	12	2:1	150	BH4
MNL034036G4011	3.4-3.6	40	0.75	1.1	12	2:1	150	BH4
MNL034036G3016	3.4-3.6	30	0.5	1.6	12	2:1	150	BH3
MNL034036G3008	3.4-3.6	30	0.5	0.8	12	2:1	150	BH3
MNL034306G3011	3.4-3.6	30	0.5	1.1	12	2:1	150	BH2
MNL034042G1518	3.4-4.2	15-16	0.4	1.8	16	1.4:1.5	150	BH2
MNL034042G2810	3.4-4.2	28	0.75	1	15	2:1	200	BH2
MNL034042G2013	3.4-4.2	20	0.4	1.3	12	1.4:1.6	150	BH2
MNL034042G2010	3.4-4.2	20	0.75	1	12	1.75:1	200	BH2
MNL034042G2710	3.4-4.2	27-29	1	1	12	2:1	200	BH2
MNL035037G4016	3.5-3.7	40	0.75	1.6	12	2:1	150	BH4
MNL035037G4011	3.5-3.7	40	0.75	1.1	12	2:1	150	BH4



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MNL035037G3016	3.5-3.7	30	0.5	1.6	12	2:1	150	BH3
MNL035037G3011	3.5-3.7	30	0.5	1.1	12	2:1	150	BH3
MNL035037G3008	3.5-3.7	30	0.5	0.8	12	2:1	150	BH3
MNL036038G4016	3.6-3.8	40	0.75	1.6	12	2:1	150	BH4
MNL036038G4011	3.6-3.8	40	0.75	1.1	12	2:1	150	BH4
MNL036038G3016	3.6-3.8	30	0.5	1.6	12	2:1	150	BH3
MNL036038G3011	3.6-3.8	30	0.5	1.1	12	2:1	150	BH3
MNL036038G3008	3.6-3.8	30	0.5	0.8	12	2:1	150	BH3
MNL037042G4017	3.7-4.2	40	0.75	1.7	12	2:1	150	BH4
MNL037042G4012	3.7-4.2	40	0.5	1.2	12	2:1	150	BH4
MNL037042G3017	3.7-4.2	30	0.5	1.7	12	2:1	150	BH3
MNL037042G3012	3.7-4.2	30	0.5	1.2	12	2:1	150	BH3
MNL037042G3008	3.7-4.2	30	0.5	0.8	12	2:1	150	BH3
MNL040045G2010	4.0-4.5	20	0.5	1	10	2:1	100	BH2
MNL040045G2016	4.0-4.5	20	0.5	1.6	10	2:1	100	BH2
MML040050G2010	4.0-5.0	20	0.5	1	10	2:1	100	BH2
MNL040050G2016	4.0-5.0	20	0.5	1.6	10	2:1	100	BH2
MNL044050G4017	4.4-5.0	40	0.75	1.7	12	2:1	150	BH4
MNL044050G4012	4.4-5.0	40	0.75	1.2	12	2:1	150	BH4
MNL044050G3017	4.4-5.0	30	0.5	1.7	12	2:1	150	BH3
MNL044050G3012	4.4-5.0	30	0.5	1.2	12	2:1	150	BH3
MNL044050G3008	4.4-5.0	30	0.5	0.8	12	2:1	150	BH3
MNL044058G3030	4.4-5.85	30	1.5	3	10	2:1	100	BH3
MNL048053G3307	4.8-5.3	33	0.5	0.7	10	1.5:1	250	BH3
MNL048053G3407	4.85-5.35	34	0.5	0.7	10	1.5:1	250	BH3
MNL048053G3007	4.85-5.35	30	0.5	0.7	10	1.5:1	250	BH3
MNL050054G2430	5-5.4	24-25	0.5	3	15	2:1	150	BH2
MNL050073G3212	5-7.3	32	1.5	1.2	10	2:1	120	BH3
MNL052059G3511	5.2-5.9	35	0.5	1.1	10	1.5:1	+5V/150	BH3
MNL052059G3311	5.2-5.9	31	0.5	1.1	10	1.5:1	+5V/150	BH3
MNL052059G3011	5.2-5.9	30	0.5	1.1	10	1.5:1	+5V/150	BH3
MNL054059G4017	5.4-5.9	40	0.75	1.7	12	2:1	150	BH4
MNL054059G4012	5.4-5.9	40	0.75	1.2	12	2:1	150	BH4
MNL054059G3017	5.4-5.9	30	0.5	1.7	12	2:1	150	BH3
MNL054059G3012	5.4-5.9	30	1	1.2	10	2:1	120	BH3
MNL054059G3012D	5.4-5.9	30	0.75	1.2	12	1.5:1	150	BH3
MNL057069G2345L02	5.7-6.9	23-35	0.5	4.5	10	1.5:1	120	BH2



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MNL059064G4018	5.9-6.4	40	0.75	1.8	12	2:1	150	BH4
MNL059064G4013	5.9-6.4	40	0.75	1.3	12	2:1	150	BH4
MNL059064G3018	5.9-6.4	30	0.5	1.8	12	2:1	150	BH3
MNL059064G3013	5.9-6.4	30	0.5	1.3	12	2:1	150	BH3
MNL059064G3013D	5.9-6.4	30	0.75	1.3	12	2:1	150	BH3
MNL064072G4018	6.4-7.2	40	0.75	1.8	12	2:1	150	BH4
MNL064072G4013	6.4-7.2	40	0.75	1.3	12	2:1	150	BH4
MNL064072G3018	6.4-7.2	30	0.5	1.8	12	2:1	150	BH3
MNL064072G3013	6.4-7.2	30	0.75	1.3	12	2:1	150	BH3
MNL064072G3010	6.4-7.2	30	0.75	1	12	2:1	150	BH3
MNL068078G2309	6.8-7.8	23-28	1	0.9	8	2:1	150	BH14
MNL070124G3450	7-12.4	34	1.5	5	10	2:1	300	BH3
MLN071084G2020	7.1-8.4	20	1	2	12	2:1	350	BH2
MNL072078G3818	7.2-7.8	38	0.75	1.8	12	2:1	150	BH4
MNL072078G3813	7.2-7.8	38	0.75	1.3	12	2:1	150	BH4
MNL072078G3311	7.2-7.8	33	0.5	1.1	10	1.8:1	+5V/150	BH3
MNL072078G3011	7.25-7.75	30	1	1.1	12	2:1	150	BH3
MNL072078G2818	7.25-7.75	28	0.5	1.8	12	2:1	150	BH2
MNL072078G2813	7.25-7.75	28	0.5	1.3	12	2:1	150	BH2
MNL072077G3011	7.25-7.75	30	0.5	1.1	10	1.5:1	250	BH3
MNL072077G2015	7.25-7.75	20~22	0.4	1.5	12	1.4:1.6	150	BH2
MNL076085G5012	7.6-8.5	50	1	1.2	12	2:1	350	BH5
MNL077085G5012	7.7-8.5	50	1	1.2	10	2:1	200	BH5
MNL079084G3819	7.9-8.4	38	0.75	1.9	12	2:1	150	BH4
MNL079084G3814	7.9-8.4	38	0.75	1.4	12	2:1	150	BH4
MNL079084G3011	7.9-8.4	30	0.75	1.1	12	2:1	150	BH3
MNL079084G2619	7.9-8.4	26	0.5	1.9	12	2:1	150	BH2
MNL079084G2614	7.9-8.4	26	0.5	1.4	12	2:1	150	BH2
MNL079085G3314	7.9-8.5	33	0.75	1.4	10	1.8:1	130	BH3
MNL079085G3013	7.9-8.5	30	0.5	1.3	10	1.5:1	80	BH3
MNL079085G3050	7.95-8.55	30	0.5	5	15	2:1	300	BH3
MNL085096G3614	8.5-9.6	36	0.75	1.4	12	2:1	150	BH4
MNL085096G3014	8.5-9.6	30	1	1.4	12	2:1	150	BH3
MNL085096G3011	8.5-9.6	30	0.4	1.1	3	1.8:1	+5V/30	BH3
MNL085096G2519	8.5-9.6	25	0.5	1.9	12	2:1	150	BH2
MNL085096G2514	8.5-9.6	25	0.5	1.4	12	2:1	150	BH2
MNL090095G3919	9.0-9.5	39	0.75	1.9	12	2:1	150	BH4
MNL090095G3614	9.0-9.5	36	0.75	1.4	12	2:1	150	BH3



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MNL090095G3011	9.0-9.5	30	0.75	1.1	12	2:1	150	BH3
MNL090095G2519	9.0-9.5	25	0.5	1.9	12	2:1	150	BH2
MNL090095G2514	9.0-9.5	25	0.5	1.4	12	2:1	150	BH2
MNL090095G3619	9.0-9.5	36	0.75	1.9	12	2:1	150	BH4
MNL091095G3213	9.1-9.5	32-35	0.5	1.3	10	2:1	150	BH4
MNL091095G4411	9.1-9.5	44-46	0.5	1.1	15	2:1	150	BH4
MNL095105G1230	9.5-10.5	12	1	3	7	2:1	100	BH5
MNL095105G3619	9.5-10.5	36	0.75	1.9	12	2:1	225	BH3
MNL095105G3614	9.5-10.5	36	0.75	1.4	12	2:1	225	BH3
MNL095105G3011	9.5-10.5	30	1	1.1	12	2:1	175	BH3
MNL095105G2519	9.5-10.5	25	0.5	1.9	12	2:1	175	BH2
MNL095105G2514	9.5-10.5	25	0.5	1.4	12	2:1	150	BH2
MNL096105G3211	9.6-10.5	32	0.4	1.1	3	1.8:1	150	BH3
MNL096105G3011	9.6-10.5	30	0.4	1.1	3	1.8:1	150	BH3
MNL096105G3112	9.6-10.54	31	0.4	1.2	3	1.8:1	150	BH3
MNL096130G3015	9.6-13	30	0.3	1.5	10	1.5:1	100	BH3
MNL107117G2020	10.7-11.7	20	1	2	12	2:1	350	BH2
MNL107117G2415	10.7-11.7	24	0.5	1.5	12	2:1	175	BH2
MNL107117G2420	10.7-11.7	24	0.5	2	12	2:1	175	BH2
MNL107117G3012	10.7-11.7	30	1	1.2	12	2:1	175	BH3
MNL107117G3515	10.7-11.7	35	0.75	1.5	12	2:1	175	BH3
MNL107117G3520	10.7-11.7	35	0.75	2	12	2:1	175	BH3
MNL117122G2415	11.7-12.2	24	0.5	1.5	12	2:1	175	BH2
MNL117122G2420	11.7-12.2	24	0.5	2	15	2:1	175	BH2
MNL117122G3012	11.7-12.2	30	0.75	1.2	12	2:1	175	BH3
MNL117122G3515	11.7-12.2	35	0.75	1.5	12	2:1	225	BH3
MNL117122G3520	11.7-12.2	35	0.75	2	12	2:1	225	BH3
MNL122127G2416	12.2-12.7	24	0.5	1.6	12	2:1	175	BH2
MNL122127G2421	12.2-12.7	24	0.5	2.1	12	2:1	175	BH2
MNL122127G3013	12.2-12.7	30	0.75	1.3	12	2:1	175	BH3
MNL122127G3516	12.2-12.7	35	0.75	1.6	12	2:1	175	BH3
MNL122127G3521	12.2-12.7	35	0.75	2.1	12	2:1	175	BH3
MNL127132G2217	12.7-13.2	22	0.5	1.7	12	2:1	175	BH2
MNL127132G2222	12.7-13.2	22	0.5	2.2	12	2:1	175	BH2
MNL127132G3014	12.7-13.2	30	0.75	1.4	10	2:1	175	BH2
MNL127132G3317	12.7-13.2	33	0.75	1.7	12	2:1	175	BH3
MNL127132G3322	12.7-13.2	33	0.75	2.2	12	2:1	175	BH3



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MNL127132G2020	12.75-13.25	20	1	2	12	2:1	350	BH2
MNL132142G2118	13.2-14.2	21	0.5	1.8	12	2:1	175	BH2
MNL132142G2123	13.2-14.2	21	0.5	2.3	12	2:1	175	BH2
MNL132142G3015	13.2-14.2	30	0.75	1.5	12	2:1	175	BH3
MNL132142G3218	13.2-14.2	32	0.75	1.8	12	2:1	175	BH3
MNL132142G3223	13.2-14.2	32	0.75	2.3	12	2:1	175	BH3
MNL137145G1535	13.7-14.5	15	0.5	3.5	7	2:1	100	BH2
MNL140145G2119	14-14.5	21	0.5	1.9	12	2:1	175	BH2
MNL140145G2124	14-14.5	21	0.5	2.4	12	2:1	175	BH2
MNL140145G3015	14.0-14.5	30	0.75	1.5	12	2:1	175	BH3
MNL140145G3219	14.0-14.5	32	0.75	1.9	12	2:1	225	BH3
MNL140145G3224	14.0-14.5	32	0.75	2.4	12	2:1	225	BH3
MNL142153G2015	14.2-15.35	20	1.5	1.5	12	2:1	175	BH2
MNL145153G2019	14.5-15.3	20	0.5	1.9	12	2:1	175	BH2
MNL145153G2024	14.5-15.3	20	0.5	2.4	12	2:1	175	BH2
MNL145153G3016	14.5-15.3	30	0.75	1.6	12	2:1	175	BH3
MNL145153G3019	14.5-15.3	30	0.75	1.9	12	2:1	225	BH3
MNL145153G3024	14.5-15.3	30	0.75	2.4	12	2:1	225	BH3
MNL150152G3416	15.006-15.256	34	0.2	1.6	10	2:1	120	BH3
MNL155165G2019	15.5-16.5	20	0.5	1.9	12	2:1	175	BH2
MNL155165G2024	15.5-16.5	20	0.5	2.4	12	2:1	175	BH2
MNL155165G3016	15.5-16.5	30	0.75	1.6	12	2:1	175	BH3
MNL155165G3019	15.5-16.5	30	0.75	1.9	12	2:1	175	BH3
MNL155165G3024	15.5-16.5	30	0.75	2.4	12	2:1	225	BH3
MNL159161G1750	15.9-16.1	17	0.25	5	17	1.5:1	200	BH2
MNL165175G2020	16.5-17.5	20	0.5	2	12	2:1	175	BH2
MNL165175G2025	16.5-17.5	20	0.5	2.5	12	2:1	175	BH2
MNL165175G3019	16.5-17.5	30	0.75	1.9	12	2:1	225	BH3
MNL165175G3020	16.5-17.5	30	0.75	2	12	2:1	225	BH3
MNL165175G3025	16.5-17.5	30	0.75	2.5	12	2:1	225	BH3
MNL170180G2025	17-18	20	0.75	2.5	12	2:1	175	BH2
MNL170180G3020	17-18	30	1	2	12	2:1	225	BH3
MNL170180G3025	17-18	30	0.75	2.5	12	2:1	225	BH3
MNL177189G3025	17.7-18.9	30	1	2.5	10	2:1	180	BH2
MNL210230G3030	21-23	30	1.2	3	10	1.8:1	+5V/180	BH3
MNL250270G3035	25-27	30	1.2	3.5	10	2:1	+5V/180	BH3

Note: Miniature size, drop-in, customized specification is also available



NARROW BAND MEDIUM POWER AMPLIFIER

FEATURES

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Miniature Sizes, Field Removable connector
- Compact/Rugged Thin-Film Construction

APPLICATIONS

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics



SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MNM007011G2027	0.77-1.11	20	1.5	6	27	2:1	750	DH4
MNM009011G3030	0.9-1.1	30	0.5	5	30	2:1	1000	BH8
MNM009011G3027	0.9-1.1	30	0.5	3	27	2:1	350	BH8
MNM009011G3023	0.9-1.1	30	0.5	3	23	2:1	350	DH4
MNM010012G3030	1-1.2	30	0.5	5	30	2:1	1000	BH8
MNM010012G3027	1-1.2	30	0.5	4	27	2:1	700	BH8
MNM010012G3023	1-1.2	30	0.5	3	23	2:1	350	DH4
MNM011013G3030	1.1-1.3	30	0.5	5	30	2:1	1000	BH8
MNM011013G3027	1.1-1.3	30	0.5	4	27	2:1	700	BH8
MNM011013G3023	1.1-1.3	30	0.5	3	23	2:1	350	DH4
MNM012014G3030	1.2-1.4	30	0.5	5	30	2:1	1000	BH8
MNM012014G3027	1.2-1.4	30	0.5	4	27	2:1	700	BH8
MNM012014G3023	1.2-1.4	30	0.5	3	23	2:1	350	DH4
MNM012017G4225	1.25-1.75	42	1	1.7	25	2:1	340	BH8
MNM013015G3030	1.3-1.5	30	0.5	5	30	2:1	1000	BH8
MNM013015G3027	1.3-1.5	30	0.5	4	27	2:1	700	BH8
MNM013015G3023	1.3-1.5	30	0.5	3	23	2:1	350	DH4
MNM014016G3030	1.4-1.6	30	0.5	5	30	2:1	1000	BH8
MNM014016G3027	1.4-1.6	30	0.5	4	27	2:1	700	BH8
MNM014016G3023	1.4-1.6	30	0.5	3	23	2:1	350	DH4
MNM015017G3030	1.5-1.7	30	0.5	5	30	2:1	1000	BH8
MNM015017G3027	1.5-1.7	30	0.5	4	27	2:1	700	BH8
MNM015017G3023	1.5-1.7	30	0.5	3	23	2:1	350	DH4
MNM016018G3030	1.6-1.8	30	0.5	5	30	2:1	1000	BH8
MNM016018G3027	1.6-1.8	30	0.5	4	27	2:1	700	BH8
MNM016018G3023	1.6-1.8	30	0.5	3	23	2:1	350	DH4
MNM017019G3030	1.7-1.9	30	0.5	5	30	2:1	1000	BH8



NARROW BAND MEDIUM POWER AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MNM017019G3027	1.7-1.9	30	0.5	4	27	2:1	700	BH8
MNM017019G3023	1.7-.9	30	0.5	3	23	2:1	350	DH4
MNM018020G3030	1.8-2.0	30	0.5	5	30	2:1	1000	BH8
MNM018020G3027	1.8-2.0	30	0.5	4	27	2:1	700	BH8
MNM018020G3023	1.8-2.0	30	0.5	3	23	2:1	350	DH4
MNM019021G3030	1.9-2.1	30	0.5	5	30	2:1	1000	BH8
MNM019021G3027	1.9-2.1	30	0.5	4	27	2:1	700	BH8
MNM019021G3023	1.9-2.1	30	0.5	3	23	2:1	350	DH4
MNM020022G3030	2.0-2.2	30	0.5	5	30	2:1	1000	BH8
MNM020022G3027	2.0-2.2	30	0.5	4	27	2:1	700	BH8
MNM020022G3023	2.0-2.2	30	0.5	3	23	2:1	350	DH4
MNM021023G3030	2.1-2.3	30	0.5	5	30	2:1	1000	BH8
MNM021023G3027	2.1-2.3	30	0.5	4	27	2:1	700	BH8
MNM021023G3023	2.1-2.3	30	0.5	3	23	2:1	350	DH4
MNM022024G3030	2.2-2.4	30	0.5	5	30	2:1	1000	BH8
MNM022024G3027	2.2-2.4	30	0.5	4	27	2:1	700	BH8
MNM022024G3023	2.2-2.4	30	0.5	3	23	2:1	350	DH4
MNM023025G3030	2.3-2.5	30	0.5	5	30	2:1	1000	BH8
MNM023025G3027	2.3-2.5	30	0.5	4	27	2:1	700	BH8
MNM023025G3023	2.3-2.5	30	0.5	3	23	2:1	350	DH4
MNM023027G3530	2.3-2.7	35	1	6	30	1.6/1.8	850	DH6
MNM024026G3030	2.4-2.6	30	0.5	5	30	2:1	1000	BH8
MNM024026G3027	2.4-2.6	30	0.5	4	27	2:1	700	BH8
MNM024026G3023	2.4-2.6	30	0.5	3	23	2:1	350	DH4
MNM025027G3030	2.5-2.7	30	0.5	5	30	2:1	1000	BH8
MNM025027G3027	2.5-2.7	30	0.5	4	27	2:1	700	BH8
MNM025027G3023	2.5-2.7	30	0.5	3	23	2:1	350	DH4
MNM026028G3030	2.6-2.8	30	0.5	5	30	2:1	1000	BH8
MNM026028G3027	2.6-2.8	30	0.5	4	27	2:1	700	BH8
MNM026028G3023	2.6-2.8	30	0.5	3	23	2:1	350	DH4
MNM027029G3030	2.7-2.9	30	0.5	5	30	2:1	1000	BH8
MNM027029G3027	2.7-2.9	30	0.5	4	27	2:1	700	BH8
MNM027029G3023	2.7-2.9	30	0.5	3	23	2:1	350	DH4
MNM028030G3030	2.8-3.0	30	0.5	5	30	2:1	1000	BH8
MNM028030G3027	2.8-3.0	30	0.5	4	27	2:1	700	BH8
MNM028030G3023	2.8-3.0	30	0.5	3	23	2:1	350	DH4
MNM029031G3030	2.9-3.1	30	0.5	5	30	2:1	1000	BH8



NARROW BAND MEDIUM POWER AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MNM029031G3027	2.9-3.1	30	0.5	4	27	2:1	700	BH8
MNM029031G3023	2.9-3.1	30	0.5	3	23	2:1	350	DH4
MNM029034G3020	2.9-3.4	30	1	1.5	20	1.8:1	250	DH4
MNM030032G3030	3-3.2	30	0.5	5	30	2:1	1000	BH8
MNM030032G3027	3-3.2	30	0.5	4	27	2:1	700	BH8
MNM030032G3023	3-3.2	30	0.5	3	23	2:1	350	DH4
MNM031033G3030	3.1-3.3	30	0.5	5	30	2:1	1000	BH8
MNM031033G3027	3.1-3.3	30	0.5	4	27	2:1	700	BH8
MNM031033G3023	3.1-3.3	30	0.5	3	23	2:1	350	DH4
MNM032034G3030	3.2-3.4	30	0.5	5	30	2:1	1000	BH8
MNM032034G3027	3.2-3.4	30	0.5	4	27	2:1	700	BH8
MNM032034G3023	3.2-3.4	30	0.5	3	23	2:1	350	DH4
MNM033035G3030	3.3-3.5	30	0.5	5	30	2:01	1000	BH8
MNM033035G3027	3.3-3.5	30	0.5	4	27	2:1	700	BH8
MNM033035G3023	3.3-3.5	30	0.5	3	23	2:1	350	DH4
MNM034042G2022	3.4-4.2	20	0.4	1.5	22	1.4:1.6	170	DH4
MNM034036G3030	3.4-3.6	30	0.5	5	30	2:1	1000	BH8
MNM034036G3027	3.4-3.6	30	0.5	4	27	2:1	700	BH8
MNM034036G3023	3.4-3.6	30	0.5	3	23	2:1	350	DH4
MNM035037G3030	3.5-3.7	30	0.5	5	30	2:1	1000	BH8
MNM035037G3027	3.5-3.7	30	0.5	4	27	2:1	700	BH8
MNM035037G3023	3.5-3.7	30	0.5	3	23	2:1	350	DH4
MNM036038G3030	3.6-3.8	30	0.5	5	30	2:1	1000	BH8
MNM036038G3027	3.6-3.8	30	0.5	4	27	2:1	700	BH4
MNM036038G3023	3.6-3.8	30	0.5	3	23	2:1	350	DH4
MNM037042G3030	3.7-4.2	30	0.5	5	30	2:1	1000	BH8
MNM037042G3027	3.7-4.2	30	0.5	4	27	2:1	700	BH8
MNM037042G3023	3.7-4.2	30	0.5	3	23	2:1	350	DH4
MNM044050G3030	4.4-5	30	0.5	5	30	2:1	1000	BH8
MNM044050G3027	4.4-5	30	0.5	4	27	2:1	700	BH8
MNM044050G3023	4.4-5	30	0.5	3	23	2:1	350	DH4
MNM053059G3030	5.3-5.9	30	0.5	5	30	2:1	1000	BH8
MNM053059G3027	5.3-5.9	30	0.5	4	27	2:1	700	BH8
MNM053059G3023	5.3-5.9	30	0.5	3	23	2:1	350	DH4
MNM059064G3030	5.9-6.4	30	0.5	5	30	2:1	1000	BH4
MNM059064G3027	5.9-6.4	30	0.5	4	27	2:1	700	BH8
MNM059064G3023	5.9-6.4	30	0.5	3	23	2:1	350	DH4



NARROW BAND MEDIUM POWER AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness ($\pm$ dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MNM064072G3030	6.4-7.2	30	0.5	5	30	2:1	1000	BH8
MNM064072G3027	6.4-7.2	30	0.5	4	27	2:1	700	BH4
MNM064072G3023	6.4-7.2	30	0.5	3	23	2:1	350	DH4
MNM072078G3030	7.2-7.8	30	0.5	6	30	2:1	1000	BH8
MNM072078G3027	7.2-7.8	30	0.5	5	27	2:1	700	BH8
MNM072078G3023	7.2-7.8	30	0.5	4	23	2:1	350	DH4
MNM072077G2022	7.25-7.75	20-22	0.4	2	22	1.6	170	BH2
MNM079084G3030	7.9-8.4	30	0.5	6	30	2:1	1000	BH8
MNM079084G3027	7.9-8.4	30	0.5	5	27	2:1	700	BH8
MNM079084G3023	7.9-8.4	30	0.5	4	23	2:1	350	DH4
MNM085096G3030	8.5-9.6	30	1	6	30	2:1	1000	BH8
MNM085096G3027	8.5-9.6	30	1	5	27	2:1	700	BH8
MNM085096G3023	8.5-9.6	30	1	4	23	2:1	350	DH4
MNM090095G3030	9-9.5	30	0.5	6	30	2:1	1000	BH8
MNM090095G3027	9-9.5	30	0.5	5	27	2:1	700	BH8
MNM090095G3023	9-9.5	30	0.5	4	23	2:1	350	DH4
MNM095105G3030	9.5-10.5	30	1	6	30	2:1	1000	BH8
MNM095105G3027	9.5-10.5	30	1	5	27	2:1	700	BH8
MNM095105G3023	9.5-10.5	30	1	4	23	2:1	350	DH4
MNM107117G3030	10.7-11.7	30	1	6	30	2:1	1100	BH8
MNM107117G3027	10.7-11.7	30	1	5	27	2:1	800	BH8
MNM107117G3023	10.7-11.7	30	1	4	23	2:1	350	DH4
MNM108118G2320	10.8-11.8	23	1	6	20	1.8:1	200	DH4
MNM117122G3030	11.7-12.2	30	1	6	30	2:1	1100	BH8
MNM117122G3027	11.7-12.2	30	1	5	27	2:1	800	BH8
MNM117122G3023	11.7-12.2	30	1	4	23	2:1	350	DH4
MNM122127G3030	12.2-12.7	30	0.5	6	30	2:1	1100	BH8
MNM122127G3027	12.2-12.7	30	0.5	5	27	2:1	800	BH8
MNM122127G3023	12.2-12.7	30	0.5	4	23	2:1	350	DH4
MNM127132G3030	12.7-13.2	30	0.5	6	30	2:1	1100	BH8
MNM127132G3027	12.7-13.2	30	0.5	5	27	2:1	800	BH8
MNM127132G3023	12.7-13.2	30	0.5	4	23	2:1	350	DH4
MNM132142G3030	13.2-14.2	30	1	6	30	2:1	1100	BH8
MNM132142G3027	13.2-14.2	30	1	5	27	2:1	800	BH8
MNM132142G3023	13.2-14.2	30	1	4	23	2:1	400	DH4
MNM139141G1623	13.9-14.1	16	0.25	6	23	1.5:1	300	DH4
MNM140145G3030	14-14.5	30	1	6	30	2:1	1100	BH8



NARROW BAND MEDIUM POWER AMPLIFIER

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Flatness (±dB.Max)	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MNM140145G3027	14-14.5	30	1	5	27	2:1	800	BH8
MNM140145G3023	14-14.5	30	1	4	23	2:1	400	DH4
MNM145153G3030	14.5-15.3	30	1	6	30	2:1	1100	BH8
MNM145153G3027	14.5-15.3	30	1	5	27	2:1	800	BH8
MNM145153G3023	14.5-15.3	30	1	4	23	2:1	400	DH4
MNM149151G1623	14.9-15.1	16	0.25	6	23	1.5:1	300	DH4
MNM155165G3030	15.5-16.5	30	1	7	30	2:1	1100	BH8
MNM155165G3027	15.5-16.5	30	1	6	27	2:1	800	BH8
MNM155165G3023	15.5-16.5	30	1	5	23	2:1	400	DH4
MNM159161G1623	15.9-16.1	16	0.25	6	23	1.5:1	300	DH4
MNM165175G3030	16.5-17.5	30	1	7	30	2:1	1100	BH8
MNM165175G3027	16.5-17.5	30	1	6	27	2:1	800	BH8
MNM165175G3023	16.5-17.5	30	1	5	23	2:1	400	DH4
MNM170180G3029	17-18	30	1	7	29	2:1	1500	BH8
MNM170180G3026	17-18	30	1	6	26	2:1	800	BH8
MNM170180G3024	17-18	30	1	5	24	2:1	400	DH4
MNM170180G3030	17-18	30	1	7	30	2:1	1500	BH8
MNM170180G3027	17-18	30	1	6	27	2:1	800	BH8
MNM170180G3023	17-18	30	1	5	23	2:1	400	DH4
MNM174176G1623	17.4-17.6	16	0.25	6	23	1.5:1	300	DH4
MNM229231G1623	22.9-23.1	16	0.25	6	23	1.5:1	300	DH4
MNM239241G1623	23.9-24.1	16	0.25	6	23	1.5:1	300	DH4
MNM249251G1623	24.9-25.1	16	0.25	6	23	1.5:1	300	DH4

Note:Miniature size,drop-in ,customized specification is also available

FEATURES

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Miniature Sizes for drop-In Assembly
- Rugged/compact Thin Film Construction

APPLICATIONS

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics



SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Input power Range(dBm)	N.F (dB. Max)	Saturated Pout (dBm)	Pout Flatness (±dB.Max)	VSWR (Max)	Harmonic output (dBc.Type)	Current@ 12-15 VDC (mA. Typ)	Case Type
MTB0502R6110L	0.5-2	-61~+10	4	3-7	1.5	2:1	-10	550	DH4/DH6
MTB0502R3025H	0.5-2	-30~+25	5	17-22	1.5	2:1	-10	300	DH4/DH6
MTB0502R3510M	0.5-2	-35~+10	5	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0502R3510H	0.5-2	-35~+10	5	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0502R3210L	0.5-2	-32~+10	3.5	3-7	1.5	2:1	-10	250	DH4
MTB0520R3505H	0.5-2	-35~+5	5	17-22	1.5	2:1	-10	300	DH4/DH6
MTB0520R3505M	0.5-2	-35~+5	5	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0520R3010H	0.5-2	-30~+10	5	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0520R3010M	0.5-2	-30~+10	5	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0520R3005H	0.5-2	-30~+5	5	17-22	1.5	2:1	-10	300	DH4/DH6
MTB0520R3005M	0.5-2	-30~+5	5	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0520R2510H	0.5-2	-25~+10	5	17-22	1.5	2:1	-10	300	DH4/DH6
MTB0502R2510M	0.5-2	-25~+10	5	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0702R6000L	0.7-2	-60~0	6	-2-1	1	2:1	-10	700	DH4/DH6
MTB0120R2520H	1-2	-25~20	5	17-20	2	2:1	-10	350	DH4/DH6
MTB0204R6110L	2-4	-61~+10	4.5	7-11	1.5	2:1	-10	650	DH4/DH6
MTB0204R2810L	2-4	-28~+10	3	7-11	1.5	2:1	-10	300	DH4/DH6
MTB0204R2510H	2-4	-25~+10	5	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0204R2510M	2-4	-25~+10	5	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0204R3005H	2-4	-30~+5	5	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0204R3005M	2-4	-30~+5	5	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0204R3010H	2-4	-30~+10	5	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0204R3010M	2-4	-30~+10	5	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0204R3510H	2-4	-35~+10	5	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0204R3510M	2-4	-35~+10	5	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0204R3505H	2-4	-35~+5	5	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0204R3505M	2-4	-35~+5	5	12-17	1.8	2:1	-10	350	DH4/DH6



WIDE BAND POWER LIMITING AMPLIFIER

Part Number	Frequency Range (GHz)	Input power Range(dBm)	N.F (dB. Max)	Saturated Pout (dBm)	Pout Flatness (±dB.Max)	VSWR (Max)	Harmonic output (dBc.Typ)	Current@ 12-15 VDC (mA. Typ)	Case Type
MTB0206R6110M	2-6	-61~+10	5.5	14-18	1.5	2:1	-10	650	DH4/DH6
MTB0206R2110M	2-6	-21~+10	4	14-18	1.5	2:1	-10	300	DH4/DH6
MTB0206R3510H	2-6	-35~+10	5	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0206R3510M	2-6	-35~+10	5	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0206R3505H	2-6	-35~+5	5	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0206R3505M	2-6	-35~+5	5	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0206R3010H	2-6	-30~+10	5	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0206R3010M	2-6	-30~+10	5	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0206R3005H	2-6	-30~+5	5	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0206R3005M	2-6	-30~+5	5	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0206R2510H	2-6	-25~+10	5	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0206R2510M	2-6	-25~+10	5	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0208R6110H	2-8	-61~+10	5.5	16-20	1.5	2:1	-10	750	DH4/DH6
MTB0208R3510H	2-8	-35~+10	6	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0208R3510M	2-8	-35~+10	6	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0208R3505H	2-8	-35~+5	6	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0208R3505M	2-8	-35~+5	6	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0208R3010H	2-8	-30~+10	6	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0208R3010M	2-8	-30~+10	6	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0208R3005H	2-8	-30~+5	6	17-22	1.8	2:1	-10	300	DH4/DH6
MTB0208R3005M	2-8	-30~+5	6	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0208R2510H	2-8	-25~+10	6	17-22	1.8	2:1	-10	300	DH4/DH6
MTB2080R2510M	2-8	-25~+10	6	12-17	1.8	2:1	-10	350	DH4/DH6
MTB0208R1910H	2-8	-19~+10	4	16-20	1.5	2:1	-10	350	DH4/DH6
MTB0218R6110L	2-18	-61~+10	7.5	7-11	1.5	2:1	-10	950	DH9
MTB0218R6108M	2-18	-61~+8	7.5	14-19	1.5	2:1	-10	950	DH9
MTB0218R2810L	2-18	-28~+10	6.5	7-11	1.5	2:1	-10	375	DH4/DH6
MTB0218R2110M	2-18	-21~+10	6.5	14-19	1.5	2:1	-10	425	DH4/DH6
MTB0408R6110M	4-8	-61~+10	5.5	14-18	1.5	2:1	-10	750	DH4/DH6
MTB0408R2110M	4-8	-21~+10	4	14-18	1.5	2:1	-10	350	DH4/DH6
MTB0618R6110M	6-18	-61~+10	7	14-19	1.5	2:1	-10	900	DH4/DH6
MTB0618R3510M	6-18	-35~+10	6	12-17	1.8	2:1	-10	450	DH4/DH6
MTB0618R3510H	6-18	-35~+10	6	17-22	1.8	2:1	-10	450	DH4/DH6
MTB0618R3510L	6-18	-35~+10	6	8-13	1.8	2:1	-10	450	DH4/DH6
MTB0618R3505H	6-18	-35~+5	6	17-22	1.8	2:1	-10	450	DH4/DH6
MTB0618R3505M	6-18	-35~+5	6	12-17	1.8	2:1	-10	450	DH4/DH6
MTB0618R3505L	6-18	-35~+5	6	8-13	1.8	2:1	-10	450	DH4/DH6



WIDE BAND POWER LIMITING AMPLIFIER

Part Number	Frequency Range (GHz)	Input power Range(dBm)	N.F (dB. Max)	Saturated Pout (dBm)	Pout Flatness (±dB.Max)	VSWR (Max)	Harmonic output (dBc.Typ)	Current@ 12-15 VDC (mA. Typ)	Case Type
MTB0618R3010H	6-18	-30~+10	6	17-22	1.8	2:1	-10	450	DH4/DH6
MTB0618R3010M	6-18	-30~+10	6	12-17	1.8	2:1	-10	450	DH4/DH6
MTB0618R3010L	6-18	-30~+10	6	8-13	1.8	2:1	-10	450	DH4/DH6
MTB0618R3005H	6-18	-30~+5	6	17-22	1.8	2:1	-10	450	DH4/DH6
MTB0618R3005M	6-18	-30~+5	6	12-17	1.8	2:1	-10	450	DH4/DH6
MTB0618R3005L	6-18	-30~+5	6	8-13	1.8	2:1	-10	450	DH4/DH6
MTB0618R2510H	6-18	-25~+10	6	17-22	1.8	2:1	-10	400	DH4/DH6
MTB0618R2510M	6-18	-25~+10	6	12-17	1.8	2:1	-10	400	DH4/DH6
MTB0618R2510L	6-18	-25~+10	6	8-13	1.8	2:1	-10	400	DH4/DH6
MTB0618R2110M	6-18	-21~+10	6	14-19	1.5	2:1	-10	400	DH4/DH6
MTB0712R6110M	7-12.4	-61~+10	6	14-19	1.5	2:1	-10	900	DH4/DH6
MTB0712R2110M	7-12.4	-21~+10	5	14-19	1.5	2:1	-10	400	DH4/DH6
MTB0812R3510H	8-12	-35~+10	6	17-22	1.8	2:1	-10	400	DH4/DH6
MTB0812R3510M	8-12	-35~+10	6	12-17	1.8	2:1	-10	450	DH4/DH6
MTB0812R3510L	8-12	-35~+10	6	8-13	1.8	2:1	-10	450	DH4/DH6
MTB0812R3505H	8-12	-35~+5	6	17-22	1.8	2:1	-10	400	DH4/DH6
MTB0812R3505M	8-12	-35~+5	6	12-17	1.8	2:1	-10	450	DH4/DH6
MTB0812R3505L	8-12	-35~+5	6	8-13	1.8	2:1	-10	450	DH4/DH6
MTB0812R3010H	8-12	-30~+10	6	17-22	1.8	2:1	-10	400	DH4/DH6
MTB0812R3010M	8-12	-30~+10	6	12-17	1.8	2:1	-10	450	DH4/DH6
MTB0812R3010L	8-12	-30~+10	6	8-13	1.8	2:1	-10	450	DH4/DH6
MTB0812R3005H	8-12	-30~+5	6	17-22	1.8	2:1	-10	400	DH4/DH6
MTB0812R3005M	8-12	-30~+5	6	12-17	1.8	2:1	-10	450	DH4/DH6
MTB0812R3005L	8-12	-30~+5	6	8-13	1.8	2:1	-10	450	DH4/DH6
MTB0812R2510H	8-12	-25~+10	6	17-22	1.8	2:1	-10	350	DH4/DH6
MTB0812R2510M	8-12	-25~+10	6	12-17	1.8	2:1	-10	400	DH4/DH6
MTB0812R2510L	8-12	-25~+10	6	8-13	1.8	2:1	-10	400	DH4/DH6
MTB8018R2110L	8-18	-21~+10	6	6-13	1.5	2:1	-10	400	DH4/DH6
MTB8018R2510H	8-18	-25~+10	6	17-22	1.8	2:1	-10	400	DH4/DH6
MTB8018R2510M	8-18	-25~+10	6	12-17	1.8	2:1	-10	400	DH4/DH6
MTB8018R2510L	8-18	-25~+10	6	8-13	1.8	2:1	-10	400	DH4/DH6
MTB8018R3005H	8-18	-30~+5	6	17-22	1.8	2:1	-10	450	DH4/DH6
MTB8018R3005M	8-18	-30~+5	6	12-17	1.8	2:1	-10	450	DH4/DH6
MTB8018R3005L	8-18	-30~+5	6	8-13	1.8	2:1	-10	450	DH4/DH6
MTB8018R3010H	8-18	-30~+10	6	17-22	1.8	2:1	-10	450	DH4/DH6
MTB8018R3010M	8-18	-30~+10	6	12-17	1.8	2:1	-10	450	DH4/DH6
MTB8018R3010L	8-18	-30~+10	6	8-13	1.8	2:1	-10	450	DH4/DH6



WIDE BAND POWER LIMITING AMPLIFIER

Part Number	Frequency Range (GHz)	Input power Range(dBm)	N.F (dB. Max)	Saturated Pout (dBm)	Pout Flatness (±dB.Max)	VSWR (Max)	Harmonic output (dBc.Typ)	Current@ 12-15 VDC (mA. Typ)	Case Type
MTB8018R3505H	8-18	-35~+5	6	17-22	1.8	2:1	-10	450	DH4/DH6
MTB8018R3505M	8-18	-35~+5	6	12-17	1.8	2:1	-10	450	DH4/DH6
MTB8018R3509H	8-18	-35~+9	6	17-22	1.8	2:1	-10	450	DH4/DH6
MTB8018R3510H	8-18	-35~+10	6	17-22	1.8	2:1	-10	450	DH4/DH6
MTB8018R3510M	8-18	-35~+10	6	12-17	1.8	2:1	-10	450	DH4/DH6
MTB8018R4005M	8-18	-40~+5	6	12-17	1.8	2:1	-10	300	DH4/DH6
MTB8018R4010L	8-18	-40~+10	6	8-13	1.8	2:1	-10	250	DH4/DH6
MTB8018R5005M	8-18	-50~+5	6	12-17	1.8	2:1	-10	400	DH4/DH6
MTB8018R5010L	8-18	-50~+10	6	8-13	1.8	2:1	-10	350	DH4/DH6
MTB8018R6110L	8-18	-61~+10	7	7-13	1.5	2:1	-10	900	DH4/DH6
MTB1218R2110L	12-18	-21~+10	6	6-13	1.5	2:1	-10	400	DH4/DH6
MTB1218R6110L	12-18	-61~+10	7	7-13	1.5	2:1	-10	900	DH4/DH6

FEATURES

- Coverage From 0.5 to 18 GHz
- 10-20dB Of Gain Control 0-5VDC
- Small Signal Gain of 18-45dB
- Compact Thin-Film Construction
- High Frequency Stability&High Reliability
- Operating temperature:-55~+85°C



APPLICATIONS

- Test Instrumentation
- Communication System
- Radar&Warfare system

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Gain (dB.Min)	Gain Control Range (dB.Max)	Gain Flatness (±dB) Max	N.F (dB.Max)	P1dB (dBm.Min)	VSWR (Max)	Current@ 12-15 VDC (mA. Typ)	Case Type
MGC0201G60	0.1-2	60-70	0-60	2.5	6	10	2:1	400	TBD
MGC0502G10	0.5-2	25	0-10	0.75	2.5	12	2:1	200	BH2/BH3
MGC0502G20	0.5-2	40	0-20	1.5	2.5	12	2:1	200	BH2/BH3
MGC0204G10	2-4	25	0-10	0.75	2	12	2:1	200	BH2/BH3
MGC0204G20	2-4	40	0-20	1.5	2	12	2:1	200	BH2/BH3
MGC0206G10	2-6	25	0-10	1	3	12	2:1	200	BH2/BH3
MGC0206G20	2-6	40	0-20	2	3	12	2:1	200	BH2/BH3
MGC0208G10	2-8	25	0-10	2	3.5	12	2:1	200	BH2/BH3
MGC0208G20	2-8	40	0-20	3	3.5	12	2:1	200	BH2/BH3
MGC0408G10	4-8	25	0-10	1	3	12	2:1	200	BH2/BH3
MGC0408G20	4-8	40	0-20	1.75	3	12	2:1	200	BH2/BH3
MGC0412G10	4-12	25	0-10	1.5	4	12	2:1	200	BH2/BH3
MGC0412G20	4-12	40	0-20	2	4	12	2:1	200	BH2/BH3
MGC0515G10	5-15	25	0-10	1.5	4.5	12	2:1	200	BH2/BH3
MGC0515G20	5-15	40	0-20	2	4.5	12	2:1	200	BH2/BH3
MGC0618G10	6-18	25	0-10	1.5	5	12	2:1	200	BH2/BH3
MGC0618G20	6-18	40	0-20	2	5	12	2:1	200	BH2/BH3
MGC0812G10	8-12	25	0-10	1.5	4	12	2:1	200	BH2/BH3
MGC0812G20	8-12	40	0-20	2	4	12	2:1	200	BH2/BH3
MGC0818G10	8-18	25	0-10	1.5	4.5	12	2:1	200	BH2/BH3
MGC0818G20	8-18	40	0-20	2	4.5	12	2:1	200	BH2/BH3
MGC1218G10	12-18	25	0-10	1.5	5	12	2:1	200	BH2/BH3
MGC1218G20	12-18	40	0-20	2	5	12	2:1	200	BH2/BH3

FEATURES

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Miniature Sizes for drop-In Assembly
- Hermetically Sealed Package for Military Application

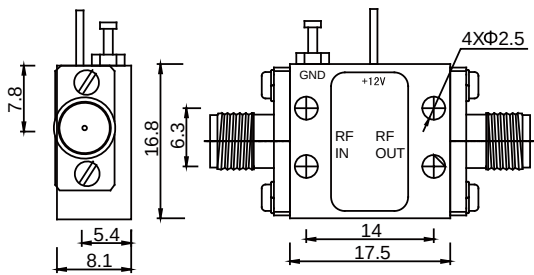


APPLICATIONS

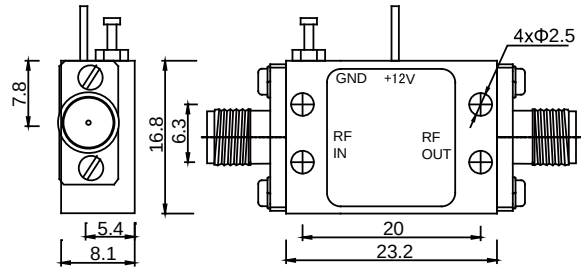
- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics

SPECIFICATIONS@25°C:

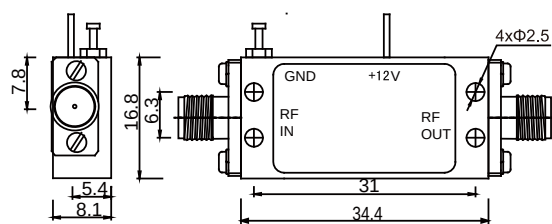
Part Number	Frequency Range (GHz)	Small Signal Gain (dB.Min)	Small Signal Gain Flatness (±dB.Max)	N.F (dB.Max)	Psat output (dBm.Typ)	Harmonics (dBc.Typ)	Spurious Signals (dBc.Typ)	VSWR Input/output (MAX)	Current@ 12-15 VDC (mA. Typ)	Case Type
MPH007025G4046	0.7-2.5	-40~50	2	/	46	-10	-60	/	28V/7000	PM7
MPH010030G1740	1-3	17-19	/	/	40	/	/	2.5:1	28V/4000	PM4
MPD020060G2540	2-6	25	2.2	7	40	-20	-60	1.8:2.0	38000	TBD
MPD020060G3540	2-6	35	2	8	40	/	/	2: 1	9V/4000	PM8
MPD020060G4033	2-6	40	2	4	33	-20	-60	1.7:1.8	700	TBD
MPH027034G4450	2.7-3.4	44-46	/	/	50	/	/	1.5:1	220V/5000	19" rack mount
MPH044048G3540	4.4-4.8	35	1.5	/	40	-50	/	/	12v/5000	PM3
MPH044048G4046	4.4-4.8	40	1.5	/	46	-50	/	/	12v/16000	PM4
MPH044050MT8M	4.4-5	25	1	/	39	/	-45	2:1	5000	TBD
MPH050054G3001	5-5.4	30	0.5	7	1	-20	-60	2:1	350	PM1
MPH050054G3405	5-5.4	34	0.5	7	5	-20	-60	2:1	2000	PM1
MPH050054G4010	5-5.4	40	0.5	7	10	-20	-60	2:1	4000	PM1
MPH050054G4315	5-5.4	43	0.5	7	15	-20	-60	2:1	4000	PM1
MPH052058G3540	5.2-5.8	35	1.5	/	40	-50	/	/	12V/5000	PM3
MPH052058G4046	5.2-5.8	40	1.5	/	46	-50	/	/	12V-16000	PM4
MPH054059G4457	5.4-5.9	44-46	/	/	57	/	/	1.5:1	220V/5000	19" rack mount
MPH060180G4338	6-18	43	2.5	10	38	/	/	2.2	8V/8000	PM8
MPH080140G3040	8-14	30	1-2	/	40	/	/	/	12V/5000	PM6
MPH090100G50120	9-10	50	/	10	120	40	70	2:1	7200	TBD
MPH093094G4039	9.3-9.4	40	1	/	39	-20	-60	2:1	/	TBD
MPH093095G3636	9.3-9.5	36	1.2	/	/	-50	/	/	12V/5000	PM3
MPH140145MT100M	14-14.5	45	1	/	50	/	45	2:1	28V/5000	TBD



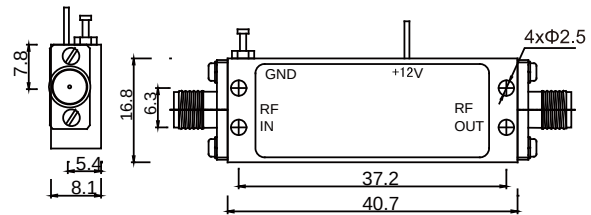
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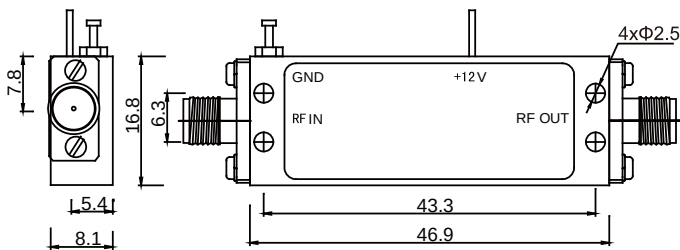
BH1



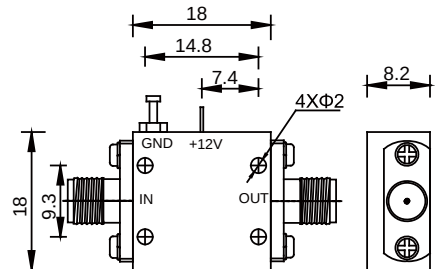
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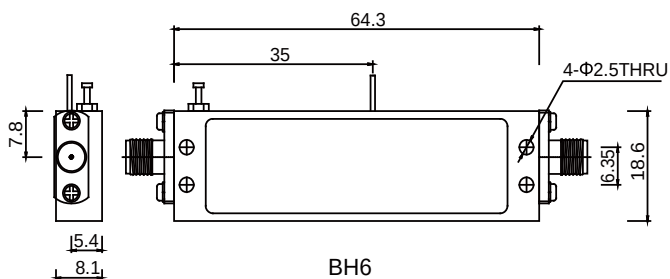
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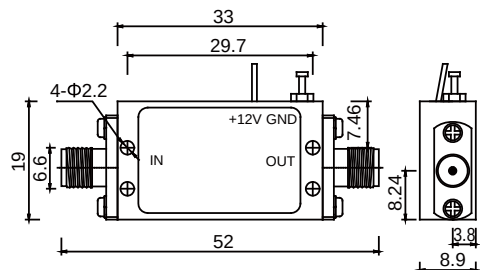
BH4



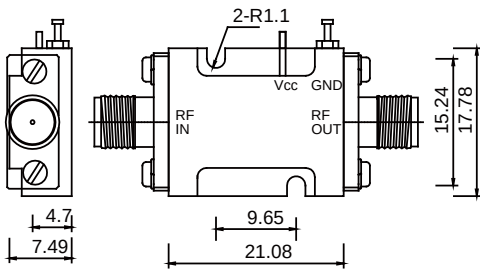
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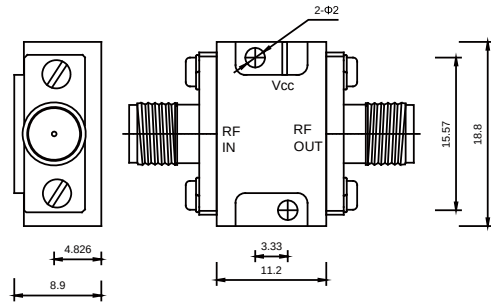
BH6



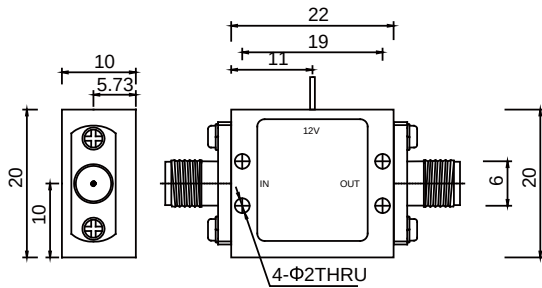
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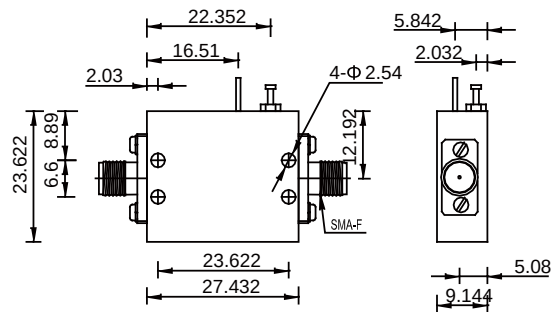
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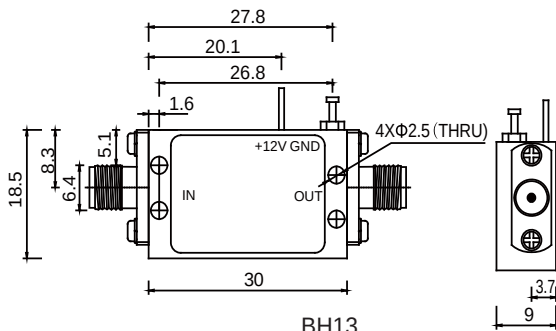
BH10



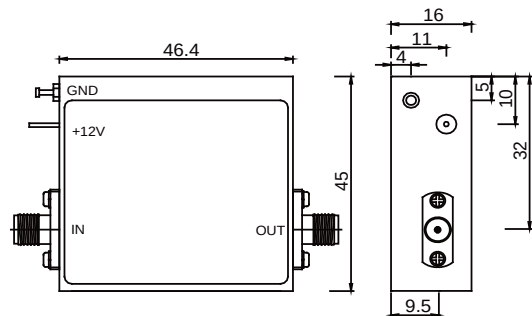
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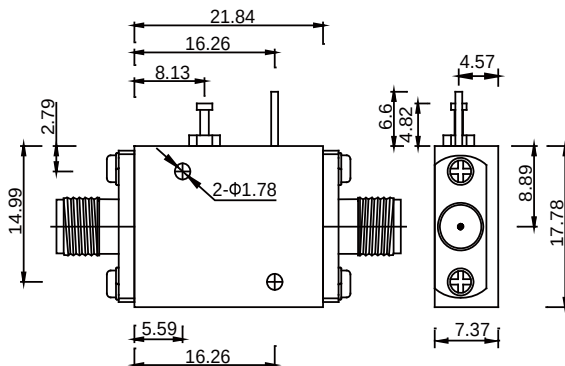
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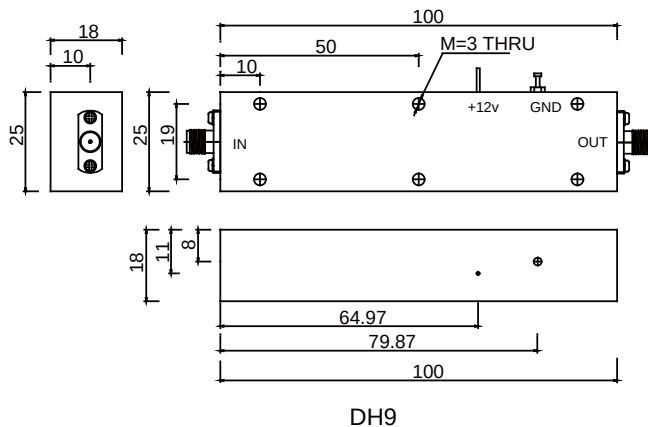
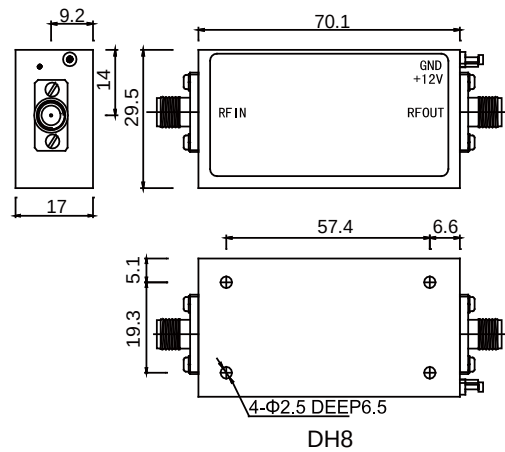
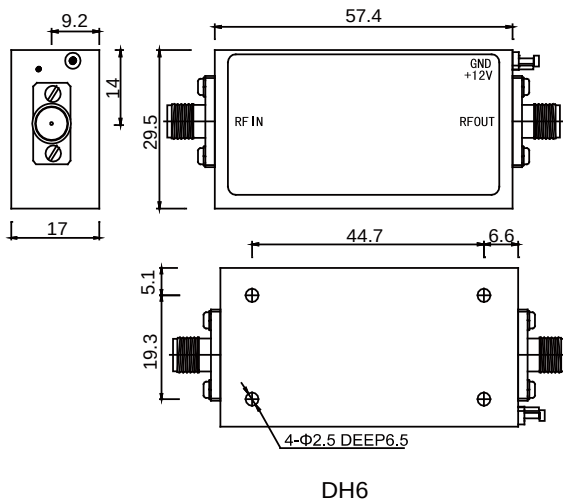
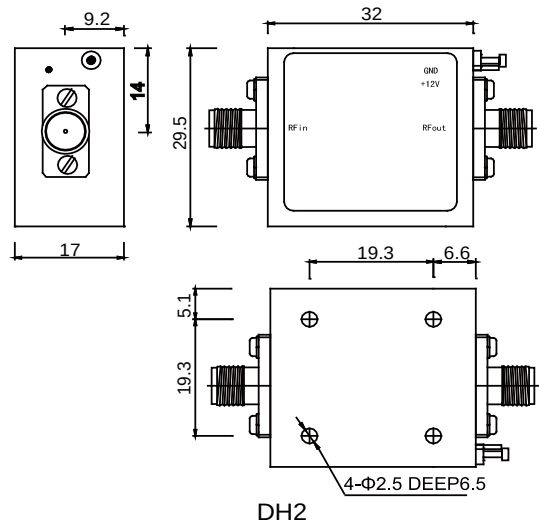
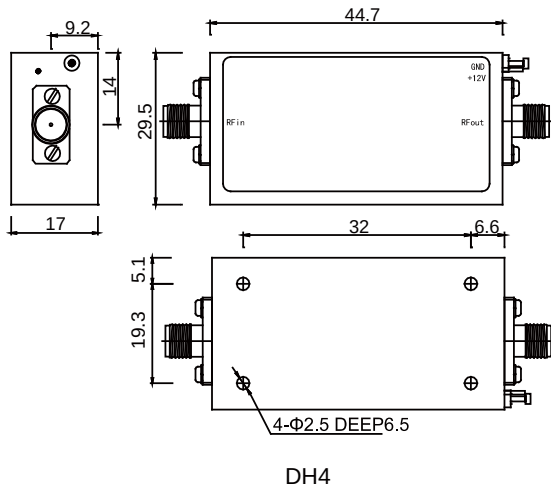
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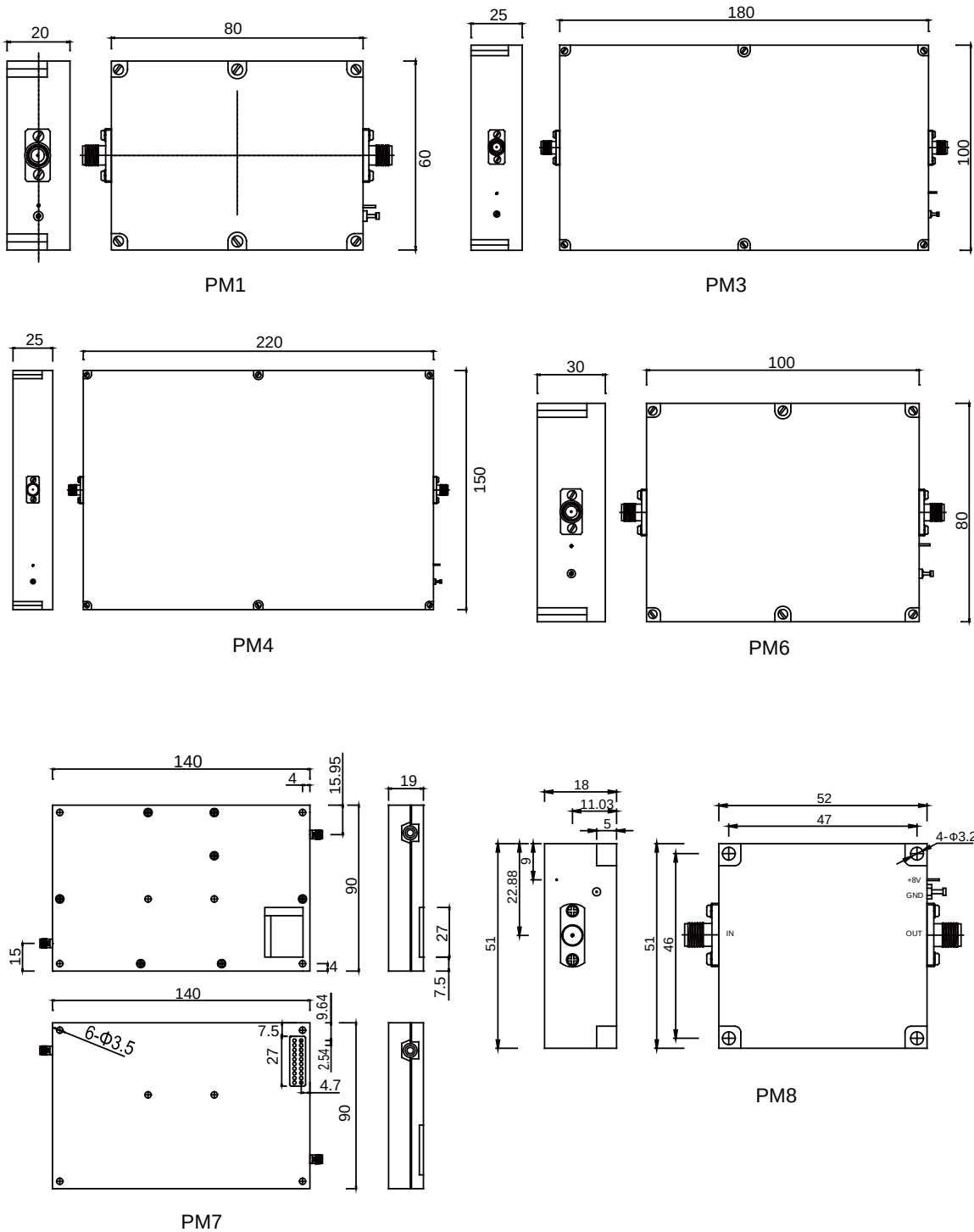


BH8



BH14





FEATURES

- Frequency Range:0.5-18GHz
- High Dynamic Range
- Compact size
- Excellent Linearity
- Precision,Reliability and Repeatability
- Economically Priced



APPLICATIONS

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Frequency measurement

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	TSS (dBm.Typ)	Flatness (±dB.Max)	Dynamic Range (dBm)	Log Linearity (±dB.Max)	VSWR (Max)	Current@ +/-12V VDC (mA. Typ)	Case Type
MDL005020S42	0.5-2	-42	2	-39~+5	1	2	120/60	DL1
MDL005060S41	0.5-6	-41	2	-38~+5	1	2	120/60	DL1
MDL005180S40	0.5-18	-40	2	-37~+5	1	2.5	120/60	DL1
MDL010020S42	1-2	-42	2	-39~+5	1	2	120/60	DL1
MDL010080S42	1-8	-42	2	-39~+5	1	2	100/50	DL1
MDL020040S42	2-4	-42	2	-39~+5	1	2	120/60	DL1
MDL020080S42	2-8	-42	2	-39~+5	1	2	120/60	DL1
MDL020100S42	2-10	-42	2	-39~+5	1	2	120/60	DL1
MDL020180S41	2-18	-41	2.5	-38~+5	1	3	120/60	DL1
MDL020180S42	2-18	-42	1.5	-39~+5	1	2.2	+8VDC/70/-8VDC/60	DL7
MDL040080S42	4-8	-42	2.5	-39~+5	1	2	120/60	DL1
MDL040120S42	4-12	-42	2	-39~+5	1	2	120/60	DL1
MDL060120S42	6-12	-42	2.5	-39~+5	1	2	120/60	DL1
MDL080120S42	8-12	-42	2.5	-39~+5	1	2	120/60	DL1
MDL080140S42	8-14	-42	2	-39~+5	1	2	120/60	DL1
MDL080180S42	8-18	-42	2.5	-39~+5	1	2.2	120/60	DL1
MDL120180S42	12-18	-42	2.5	-39~+5	1	2.2	120/60	DL1
MDL180265S40	18-26.5	-39	2.5	-39~+5	1.5	3.5	100/200	DL6
MDL180400S40	18-40	-39	2.5	-36~+5	1.5	3.5	100/200	DL6
MDL260400S40	26-40	-39	2.5	-39~+5	1.5	3.5	100/200	DL6

FEATURES

- Frequency Range:0.5-18GHz
- High Dynamic Range
- Compact size
- Excellent Linearity
- Precision,Reliability and Repeatability
- Economically Priced

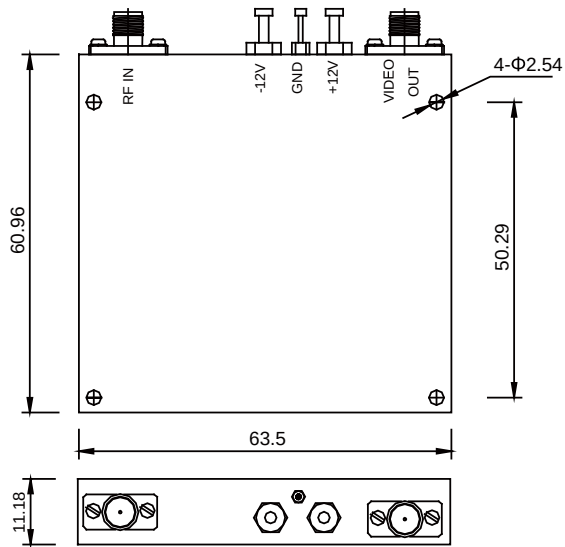


APPLICATIONS

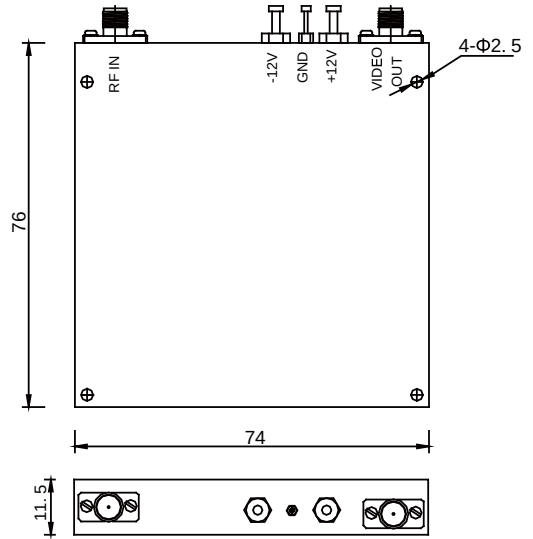
- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Frequency measurement

SPECIFICATIONS@25°C:

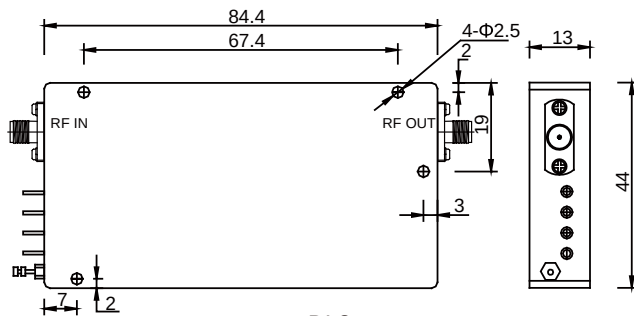
Part Number	Frequency Range (GHz)	TSS (dBm.Typ)	Flatness (±dB.Max)	Dynamic Range (dBm)	Log Linearity (±dB.Max)	VSWR (Max)	Current@ +/-12 VDC (mA. Typ)	Case Type
MDL005020D72	0.5-2	-72	2	-70~+5	1	2	250/130	DL2
MDL005060D72	0.5-6	-72	2	-70~+5	1	2	250/130	DL2
MDL010020D72	1-2	-72	2	-70~+5	1	2	250/130	DL2
MDL010080D72	1-8	-72	2	-70~+5	1	2	250/130	DL2
MDL010180D68	1-18	-70	2.5	-70~+5	1	2.5	250/130	DL2
MDL020040D72	2-4	-72	2	-70~+5	1	2	250/130	DL2
MDL020060D72	2-6	-72	2	-70~+5	1	2	250/130	DL2
MDL020180D68	2-18	-70	2.5	-70~+5	1	2.5	250/130	DL2
MDL020100D72	2-10	-72	2	-70~+5	1	2	250/130	DL2
MDL040080D72	4-8	-72	2	-70~+5	1	2	250/130	DL2
MDL040100D72	4-10	-72	2	-70~+5	1	2	250/130	DL2
MDL060120D72	6-12	-72	2	-70~+5	1	2	250/130	DL2
MDL060180D72	6-18	-72	2	-70~+5	1	2.2	250/130	DL2
MDL080120D72	8-12	-72	2	-70~+5	1	2	250/130	DL2
MDL080140D72	8-14	-72	2	-70~+5	1	2	250/130	DL2
MDL080180D72	8-18	-72	2	-70~+5	1	2	250/130	DL2
MDL120180D72	12-18	-72	2	-70~+5	1	2	250/130	DL2



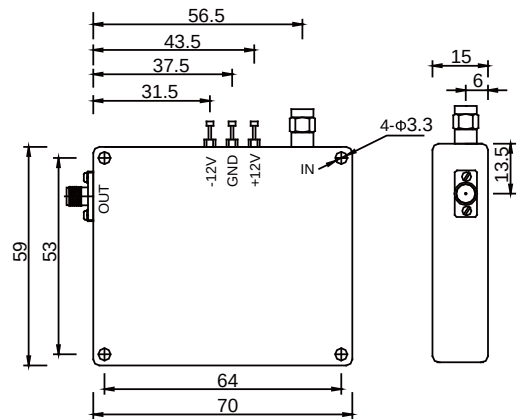
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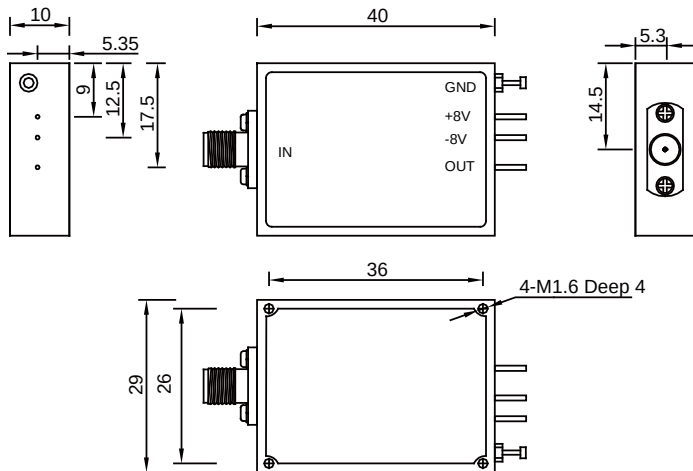
DL2



DL3



DL6



DL7

FEATURES

- Wide Bandwidth
- Low Insertion Loss
- Lower limiting threshold
- Miniature Sizes for drop-In Assembly
- Rugged/compact Thin Film Construction
- High power handling



APPLICATIONS

- Front End Protection for LNA's
- Power Leveling (Limiting)
- Receiver Protection

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB)	Threshold (dBm)	Spike Leakage (dBm)	VSWR (Max)	Input Power (Watt.Avg)	Peak Power (W.Max)	Recovery Time (ns)	Pulse Width (us)	Duty Cycle %	Case Type
MLT001180T10	0.1-18	2.5	10	13	2:1	2	200	50	1	1	LT1
MLT005010T17	0.5-1	0.5	17	19	1.4:1	2	200	50	1	1	LT1
MLT005010T10	0.5-1	0.6	10	12	1.4:1	2	200	50	1	1	LT1
MLT005010T15	0.5-1	0.8	15	17	1.5:1	10	1000	50	1	1	LT1
MLT005180T10	0.5-18	2.5	10	13	2.2:1	2	200	50	1	1	LT1
MLT010020T17	1-2	0.5	17	19	1.4:1	2	200	50	1	1	LT1
MLT010020T10	1-2	0.7	10	12	1.5:1	2	200	50	1	1	LT1
MLT010020T15	1-2	1	15	17	1.5:1	10	1000	50	1	1	LT1
MLT020040T17	2-4	0.7	17	19	1.5:1	2	200	50	1	1	LT1
MLT020040T10	2-4	0.9	10	12	1.5:1	2	200	50	1	1	LT1
MLT020040T15	2-4	1.2	15	17	1:1	7	700	50	1	1	LT2
MLT020180T17	2-18	2	17	19	2.1:1	2	200	50	1	1	LT1
MLT020180T10	2-18	2.5	10	12	2.2:1	2	200	50	1	1	LT1
MLT020180T15	2-18	2.5	15	17	2.5:1	5	500	50	1	1	LT1
MLT020180T30	2-18	2	30	35	19:12	1	400	100	1(CW)/100(PRI)	/	LT1
MLT027030T15	2.7-3	0.5	/	/	1.3:1	20	/	/	1-100	20	LT2
MLT040080T17	4-8	1.1	17	19	1.5:1	2	200	50	1	1	LT1
MLT040080T10	4-8	1.3	10	12	1.5:1	2	200	50	1	1	LT1
MLT040080T15	4-8	1.6	15	17	1.6:1	5	500	50	1	1	LT1
MLT050080T18	5-8	1.1	18	/	1.5:1	20	1000	/	1	/	LT4
MLT080120T15	8-12	1.7	15	17	1.6:1	5	500	50	1	1	LT1
MLT080120T10	8-12	1.8	10	12	1.5:1	2	100	50	1	1	LT1
MLT080180T17	8-18	1.9	17	19	1.9:1	2	200	50	1	1	LT1
MLT080180T15	8-18	2.2	15	17	2:1	5	500	50	1	1	LT1
MLT080180T20	8-18	2.3	20	/	2.1:1	3	1000	1000	/	/	LT1
MLT093095T20D	9.3-9.5	1.5	20	30	1.4:1	1	55dBm	1us	1	/	LT1

FEATURES

- High Power Handling
- Low Limiting Threshold
- Low Leakage Level
- Miniature Sizes

APPLICATIONS

- Front End Protection for LNA's
- Power Leveling (Limiting)
- Receiver Protection
- Radar&EW system



SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Peak Power (KW.Max)	Pulse Width (us)	Duty Cycle %	Insertion Loss (dB)	Flatness Leakage (dBm)	Spike Leakage (Watt)	VSWR (Max)	Recovery Time (us)	Connector	Size LxWxH(mm)
MLT025027H20KK	2.55-2.7	2000	3	0.15	1	50	2	15	40	BJ-32	193*118*71
MLT025026H20KK	2.585-2.645	2000	3	0.15	1	50	2	12	40	BJ-32	55*93*80
MLT025028H20KK	2.595-2.85	2000	2.8	0.1	1.2	20	2	1.4	40	BJ-32	220*118*133
MLT028026H10KK	2.6-2.8	1000	1	0.14	1	55	2	1.4	60	BJ-32	Φ118*143
MLT029026H10KK	2.6-2.85	1000	2.8	0.1	1.2	20	2	1.4	40	BJ-32	220*114/118*133
MLT026028H20KK	2.6-2.86	2000	3	0.15	0.4	40	2	1.65	60	BJ-32	45*85*102
MLT026027H10KK	2.69-2.73	1000	3	0.105	1	50	2	20	40	BJ-32	55*93*75
MLT026028H10KK	2.695-2.845	1000	1	0.035	0.5	60	2	1.3	30	BJ-32	43*82*63
MLT027029H20KK	2.7-2.9	2000	3	0.15	1	50	2	15	40	BJ-32	193*118*71
MLT027030H050K	2.7-3	5	1-100	20	1	30	2	1.3	10	BJ-32	175*122*93
MLT027032H10KK	2.7-3.25	1000	2.5	0.1	1	50	2	12.5	30	BJ-32	Φ27*81
MLT027032H006K	2.7-3.26	0.6	1	0.035	1	55	2	1.5	30	BJ-32	Φ27*80
MLT027027H20KK	2.72-2.78	2000	3	0.15	1	50	2	12	40	BJ-32	55*93*75
MLT027030H07KK	2.75-3.05	700	46	1.4	0.7	10	2	1.35	14	BJ-32	250*128*106
MLT027031H10KK	2.75-3.1	1000	1	0.1	1	15	2	1.35	30	BJ-32	203*114*113
MLT028030H10KK	2.805-3.05	1000	1	0.14	1	55	2	1.4	60	BJ-32	Φ118*126
MLT028028H10KK	2.81-2.85	1000	3	0.105	1	50	2	20	40	BJ-32	55*93*75
MLT029030H20KK	2.9-3.08	2000	3	0.15	1	50	2	15	40	BJ-32	193*118*71
MLT029032H10KK	2.9-3.2	1000	2.8	0.1	1.2	20	2	1.4	40	BJ-32	220*114/118*133
MLT029031H10KK	2.91-3.19	1000	1	0.14	1	50	2	1.65	40	BJ-32	143*118*118
MLT030029H10KK	2.96-3	1000	3	0.105	1	50	2	20	40	BJ-32	55*93*75
MLT031029H10KK	2.965-3.115	1000	1	0.035	0.5	60	2	1.3	30	BJ-32	43*82*63
MLT029030H10KK	2.99-3.03	1000	3	0.105	1	50	2	20	40	BJ-32	55*93*75
MLT030031H10KK	3.08-3.12	1000	3	0.105	1	50	2	20	40	BJ-32	55*93*75
MLT053056H01KK	5.35-5.675	100	0.5-2	0.05	1	15	2	1.4	10	BJ-48	58*89*83
MLT054059H150K	5.4-5.9	15	12.4	/	0.7	80	2	1.3	13	BJ-58	58*81*62
MLT055056H250K	5.575-5.625	25	1	0.1	0.7	50	2	1.4	5	BJ-58	47*81*64



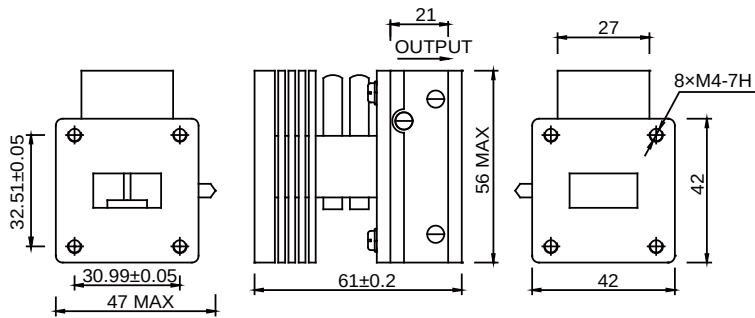
WAVEGUIDE HIGH POWER LIMITER

Part Number	Frequency Range (GHz)	Peak Power (KW.Max)	Pulse Width (us)	Duty Cycle %	Insertion Loss (dB)	Flatness Leakage (dBm)	Spike Leakage (Watt)	VSWR (Max)	Recovery Time (us)	Connector	Size LxWxH(mm)
MLT064070H050K	6.4-7.05	5	6-20	2.5-3.8	1	40	2	1.6	2	BJ-70	71*68.3*74
MLT064070H500K	6.4-7.07	50	20	4.5	1	40	2	1.3	2	BJ-70	91*72*95
MLT067069H400K	6.7-6.9	40	0.8	0.136	0.8	100	2	1.4	3	BJ-70	49*73*55
MLT078083H100K	7.85-8.35	10	0.1-1.5	0.1	0.6	300	2	1.25	2	BJ-84	TBD
MLT078084H100K	7.8-8.4	10	1	0.1	0.6	60	2	1.5	2	BJ-84	TBD
MLT086094H015K	8.6-9.4	1.5	20	5	1	50	2	1.4	1	TBD	61*65*42
MLT086095H020K	8.6-9.5	2	300	20	0.6	50	2	1.3	0.5	WR90	TBD
MLT086095H300K	8.6-9.5	30	1.15	1.1	0.6	100	2	1.4	1	BJ-100	39.5*76*50
MLT086096H001K	8.6-9.6	0.15	1	0.1	0.8	60	2	1.4	2	BJ-84	TBD
MLT086096H150K	8.6-9.6	15	0.4-10	1.5	1	30	2	1.4	2	BJ-84	TBD
MLT088096H050K	8.8-9.6	5	5	1.2	1	50	2	1.3	1	BJ-100	39.5*50*53
MLT088096H02KK	8.8-9.6	250	5	0.6	1	50	2	1.3	1	BJ-100	75*53*39.5
MLT088098H800K	8.8-9.8	80	1	0.1	1	60	2	1.7	3	BJ-100	41.5*60*55
MLT088098H02KK	8.8-9.8	200	1	0.1	1	30	2	/	3	BJ-100	30.4*82*49
MLT098088H02KK	8.8-9.8	200	1	0.1	0.8	300	2	1.7	1.3	TBD	26.5*80*47
MLT088098H250K	8.87-9.87	25	0.5	0.1	1	30	2	1.4	2	BJ-100	39.5*53*53
MLT088098H001K	8.87-9.87	100	0.5	0.1	1	30	2	/	2	BJ-100	39.5*74*53
MLT089094H015K	8.9-9.4	1.5	1	0.1	1	80	2	1.5	2	BJ-100	50*50*34
MLT089095H01KK	8.9-9.55	160	1	0.1	1.3	36	2	1.5	2	BJ-84	TBD
MLT090095H0050	9-9.5	0.05	/	/	1	50	2	1.4	5	TBD	61*56*42
MLT090095H002k	9-9.5	0.2	/	/	1	50	2	1.4	5	TBD	61*56*42
MLT090096H010K	9-9.6	1	0.7	0.1	1	40	2	1.5	2	BJ-100	39.5*50*54
MLT096090H01KK	9-9.6	100	0.7	0.1	1	30	2	/	3	BJ-100	30.4*82*53
MLT090096H01KK	9-9.6	100	1	0.1	1.2	30	2	/	3	BJ-100	30.4*82*53
MLT096090H120K	9-9.6	120	0.7	0.1	1	20	2	1.5	2	BJ-100	39.5*73.5*53
MLT090096H02KK	9-9.6	200	1	0.1	1.2	30	2	/	3	BJ-100	30.4*82/82.5*53
MLT090098H015K	9-9.8	1.5	20	5	1	50	2	1.4	0.5 10	TBD	61*56*42
MLT090098H020K	9-9.8	2	10	5	1	50	2	1.4	0.5 10	TBD	61*56*42
MLT090098H100K	9-9.8	10	1	0.1	1	60	2	1.5	2	BJ-100	30*50*50
MLT090100H003k	9-10	0.3	/	/	1	50	2	1.4	5	TBD	57*41.4*41.4
MLT091096H4KW	9.1-9.6	4	/	/	0.8	20	0.1	1.4	1	TBD	TBD
MLT091096H8KW	9.1-9.6	8	/	/	0.8	20	0.1	1.4	1	TBD	TBD
MLT091097H01KK	9.1-9.7	100	1	0.1	1.1	30	2	1.5	3	BJ-100	30.4*82*45
MLT096091H100K	9.12-9.62	10	0.5	0.1	0.8	30	2	1.3	2	BJ-100	51.6*49*60
MLT091096H100K	9.12-9.62	10	0.5	0.1	0.8	60	2	1.3	2	BJ-100	30*50*42.5
MLT091096H050K	9.14-9.61	5	1.5	0.1	0.8	80	2	1.7	3	BJ-84	TBD
MLT091099H050K	9.15-9.95	5	6-20	2.5-3.8	1.1	40	2	1.6	2	BJ-100	50.4*49*60

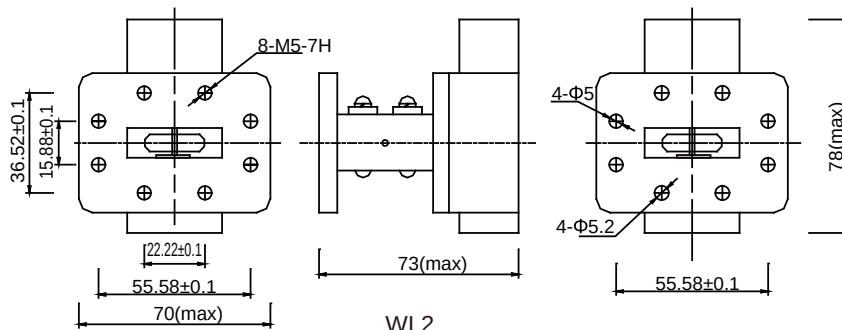


WAVEGUIDE HIGH POWER LIMITER

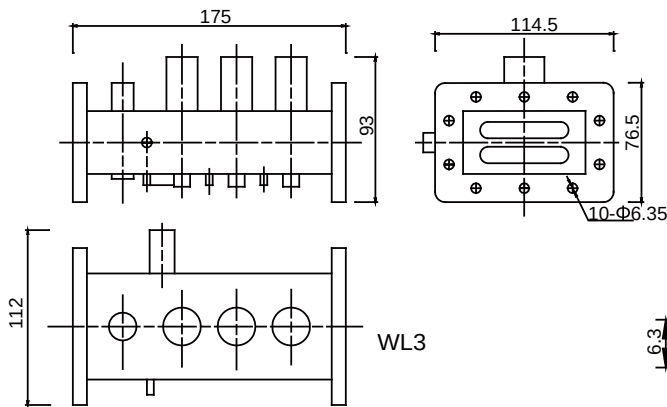
Part Number	Frequency Range (GHz)	Peak Power (KW.Max)	Pulse Width (us)	Duty Cycle %	Insertion Loss (dB)	Flatness Leakage (dBm)	Spike Leakage (Watt)	VSWR (Max)	Recovery Time (us)	Connector	Size LxWxH(mm)
MLT091095H075K	9.17-9.57	7.5	0.5	0.1	1	50	2	11	4	BJ-84	40.5*24.6*30
MLT091095H01KK	9.17-9.57	100	1	0.1	1	50	2	8	4	BJ-100	48*20*36
MLT092094H003K	9.2-9.4	0.3	/	/	0.8	50	2	1.4	10	TBD	61*56*42
MLT092094H01KK	9.21-9.41	120	1	0.1	1	15	2	1.4	2	BJ-100	63.5*53*47
MLT092095H100K	9.225-9.525	10	1	0.1	0.8	60	2	1.3	2.5	BJ-100	30*50*42.5
MLT092096H050K	9.2-9.6	5	0.14	0.05	1	1000	5	1.3	0.8	WR-90	61*42*42
MLT092097H015K	9.27-9.47	1.5	1	0.1	1	80	2	1.3	2	BJ-100	50*45*30
MLT093098H01KK	9.3-9.8	100	0.5	0.1	1	10	2	1.2	1	BJ-100	30.4*82*53
MLT0940947H018K	9.45-9.75	1.82	130	10	0.8	40	2	1.25	0.4	BJ-100	51.8*49*60
MLT095099H020K	9.55-9.95	2	130	10	0.8	40	2	1.25	0.4	BJ-100	63.3*49*60
MLT096100H020K	9.6-10	2	130	10	1	40	2	1.25	0.6	BJ100	63.3*49*60
MLT096100G120K	9.6-10	12	10	5	1	40	2	1.25	0.6	BJ-100	63.3*49*60
MLT155145H800K	14.5-15.5	80	1	0.1	1.4	30	2	1.5	2	BJ-140	67*36.3*20.5
MLT145155H800K	14.5-15.5	80	1	0.1	1.2	30	2	1.5	2	BJ-140	67*36.3*20.5
MLT145155H001K	14.5-15.5	0.01	1	0.1	1.2	60	2	1.5	2	BJ-140	42*33*20.5
MLT145149H010K	14.5-14.9	1	9	4.6	1.2	15	2	1.3	2	BJ-140	48.3*51*43
MLT145154H01KK	14.55-15.45	100	1	0.06	1.25	50	2	1.7	6	BJ-140	18.8*55*36
MLT154145H01KK	14.55-15.45	100	0.8-1	0.06	1	50	2	7	6	BJ-140	15*30*30
MLT145154H050K	14.55-15.45	5	1	0.06	1.25	50	2	1.7	6	BJ-140	18.8*55*36
MLT146153H001K	14.625-15.375	0.1	1	0.1	1.1	30	2	1.5	2	BJ-140	19.2*46*33
MLT146153H030K	14.625-15.375	3	0.12	0.0504	1.1	30	2	1.5	2	BJ-140	19.2*46*33
MLT147153H800K	14.7-15.3	80	1	0.1	1.2	60	2	1.5	2	BJ-140	19.2*46*33
MLT148152H800K	14.8-15.2	80	0.7	0.1	1.2	20	2	1.5	2	BJ-140	48.5*47.3*50.5
MLT148152H200K	14.8-15.2	20	0.5	0.1	1.4	12	2	1.3	1.2	BJ-140	48.5*51*43
MLT148152H050K	14.8-15.2	5	0.7	0.1	1.2	40	2	1.5	2	BJ-140	48.5*47.3*50.5
MLT150156H025K	15-15.6	2.5	0.8-30	0.1-2	1	50	2	1.3	2	BJ-140	19.2*46*33
MLT160170H010K	16-17	1	7.5	10	1.3	20	2	1.4	3	BJ-140	48.3*51*43
MLT170160H600K	16-17	60	0.5-7.5	4.6	1.2	20	2	1.25	10	BJ-140	42*33*19.4
MLT160170H600K	16-17	60	1	0.1	1.2	30	2	1.25	10	BJ-140	42*33*19.4
MLT170160H100K	16-17	10	1	0.1	1	30	2	1.25	8	BJ-140	38.5*33*20.5
MLT160170H100K	16-17	10	1	0.1	1	75	2	1.6	8	BJ-140	38.5*33*20.5
MLT168161H020K	16.15-16.85	2	7.5	6	1.2	20	2	1.3	2	BJ-140	48.5*62.5*51.3
MLT161168H020K	16.15-16.85	2	7.5	6	1.2	40	2	1.3	2	BJ-140	48.5*47.3*50.5
MLT333347H100K	33.3-34.7	10	1	0.01	1.3	200	2	1.4	2	BJ-320	TBD
MLT344356H100K	34.4-35.6	10	1	0.01	1.3	200	2	1.4	2	BJ-320	TBD



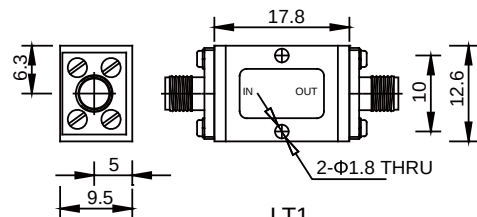
WL1



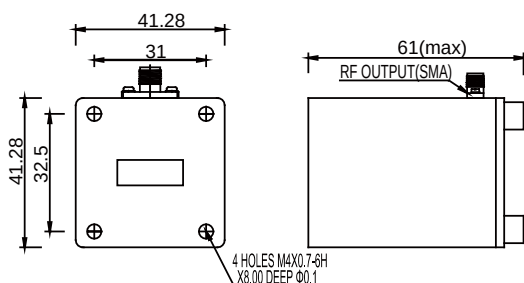
WL2



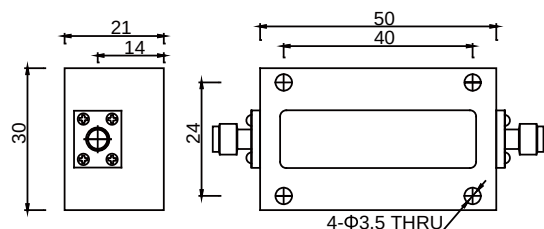
WL3



LT1



WL4



LT2

FEATURE:

- Solid State,Mixture Integrated
- High Sensitivity,Excellent Flatness
- Wideband,High Reliability
- Operating Temperature:-55~+85°C
- Field Removable SMA(F)



APPLICATION:

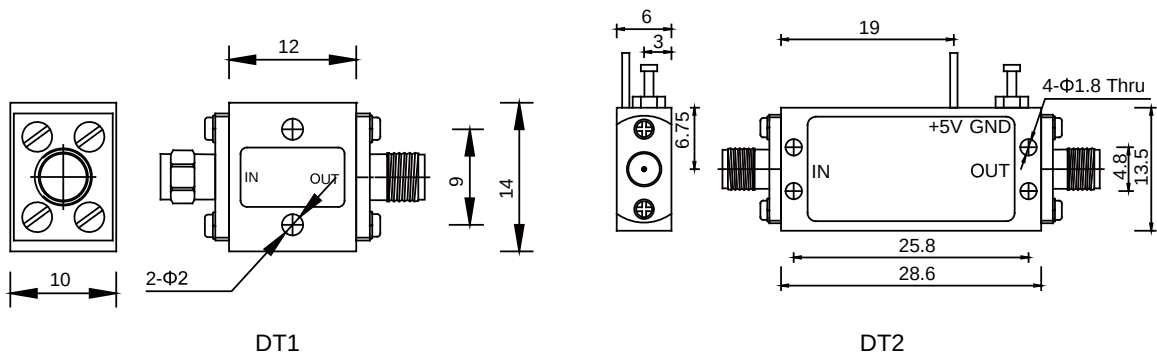
- Test Equipment
- Subsystems
- Prototypes

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Sensitivity K (mV/mW)	Tss (dBm.type)	Flatness (±dB.max)	VSWR (Max)	Work Type	Case Type
MDT001010C	0.1-1	2	-38	0.5	2	Active	DT2
MDT001020M	0.1-2	500	-45	0.5	2	Passive	DT1
MDT001180M	0.1-18	500	-45	1.9	2	Passive	DT1
MDT005180C	0.5-18	1	-38	1.5	2	Active	DT2
MDT010120C	1-12	1.2	-38	1	2	Active	DT2
MDT020040M	2-4	500	-45	0.5	1.5	Passive	DT1
MDT020180M	2-18	500	-45	1.9	2	Passive	DT1
MDT040080M	4-8	500	-45	0.6	1.5	Passive	DT1
MDT080120M	8-12	500	-45	1.8	1.8	Passive	DT1
MDT120180M	12-18	500	-45	1.2	2	Passive	DT1

Note 1: Negative output polarity standard.Add "P" to end of model number for Positive output polarity.

Note 2: TSS based on 2 MHz video bandwidth and 2 dB amplifier NF.



FEATURES

- Small size, Flexible and Multifunctional Structure
- Wideband Frequency Range, High Reliability
- Operating Temperature range: -55~+85°C
- Field Removable SMA Connector, Drop-IN Type

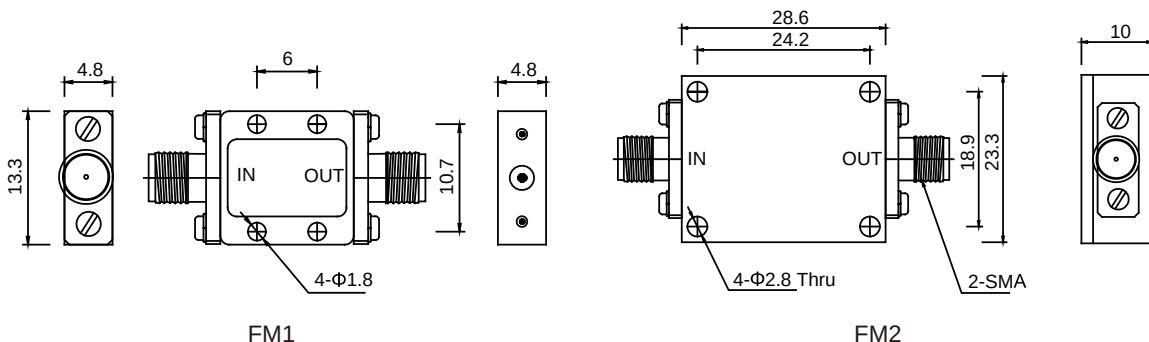


APPLICATIONS

- Communication System
- Test Equipment
- Radar & Warfare System

SPECIFICATIONS@25°C:

Part Number	Input Frequency (GHz)	Output Frequency (GHz)	Input Power (dBm Typ)	Insertion Loss (dB Max)	VSWR (Max)	Harmonic Rejection (dBc Max)	Multiply Factor	Case Type
MFM010020M2L	1-2	2-4	13	10	1.5	25	2	FM1
MFM020040M2L	2-4	4-8	13	10	1.5	25	2	FM1
MFM020040M2M	2-4	4-8	13	10	1.5	25	2	FM2
MFM020090M2L	2-9	4-18	13	11	2	25	2	FM1
MFM020100M2M	2-10	4-20	13	11.5	2	25	2	FM2
MFM030110M2L	3-11	6-22	13	11	2.5	25	2	FM1
MFM040080M2L	4-8	8-16	13	10	2	25	2	FM1
MFM040080M2M	4-8	8-16	13	10	2	25	2	FM2
MFM090145M1M	9-14.5	18-29	16	10	2	20	2	FM2



FEATURE:

- Solid State,Mixture Integrated
- High Speed,Low Loss,High Isolation
- Field Removable SMA(F) Connector
- Integrated with Driver



APPLICATION:

- Test equipment
- Radar&Warfare system
- Communication system

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	Isolation (dB.Min)	VSWR (Max)	Input Power (Max.W)	Switch Time(ns)	Current@ +5V/-5VDC (mA.Typ)	Case Type
Absorptive								
SPST001005A8	0.1-0.5	1.3	80	1.5	0.2	50	30/20	SW1/SW2
SPST001005A6	0.1-0.5	1	60	1.5	0.2	50	30/20	SW1/SW2
SPST005020A8	0.5-2	1.2	80	1.5	0.2	50	30/20	SW1/SW2
SPST005020A6	0.5-2	1	60	1.5	0.2	50	30/20	SW1/SW2
SPST005180A8	0.5-18	2.9	80	2.2	0.2	50	30/20	SW1/SW2
SPST005180A6	0.5-18	2.5	60	2.2	0.2	50	30/20	SW1/SW2
SPST020040A8	2-4	1.2	80	1.5	0.2	50	30/20	SW1/SW2
SPST020040A6	2-4	1	60	1.5	0.2	50	30/20	SW1/SW2
SPST020180A8	2-18	2.9	80	2	0.2	50	30/20	SW1/SW2
SPST020180A6	2-18	2.5	60	2	0.2	50	30/20	SW1/SW2
SPST040080A8	4-8	1.5	80	1.5	0.2	50	30/20	SW1/SW2
SPST040080A6	4-8	1.1	60	1.5	0.2	50	30/20	SW1/SW2
SPST080120A8	8-12	2.2	80	1.7	0.2	50	30/20	SW1/SW2
SPST080120A6	8-12	1.9	60	1.7	0.2	50	30/20	SW1/SW2
SPST120180A8	12-18	2.5	80	1.7	0.2	50	30/20	SW1/SW2
SPST120180A6	12-18	2.1	60	1.7	0.2	50	30/20	SW1/SW2

FEATURE:

- Solid State,Mixture Integrated
- High Speed,Low Loss,High Isolation
- Field Removable SMA(F) Connector
- Integrated with Driver



APPLICATION:

- Test equipment
- Radar&Warfare system
- Communication system

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	Isolation (dB.Min)	VSWR (Max)	Input Power (Max.W)	Switch Time(ns)	Current@ +5V/-5VDC (mA.Typ)	Case Type
Reflective								
SPST001005R8	0.1-0.5	0.8	60	1.5	1	50	30/20	SW1/SW2
SPST001005R6	0.1-0.5	0.6	80	1.5	1	50	30/20	SW1/SW2
SPST005020R8	0.5-2	0.9	80	1.5	1	50	30/20	SW1/SW2
SPST005020R6	0.5-2	0.5	60	1.5	1	50	30/20	SW1/SW2
SPST005180R8	0.5-18	2.5	80	2.2	1	50	30/20	SW1/SW2
SPST005180R6	0.5-18	2.1	60	2.2	1	50	30/20	SW1/SW2
SPST020040R8	2-4	0.8	80	1.5	1	50	30/20	SW1/SW2
SPST020040R6	2-4	0.6	60	1.5	1	50	30/20	SW1/SW2
SPST020180R8	2-18	2.5	80	2	1	50	30/20	SW1/SW2
SPST020180R6	2-18	2.1	60	2	1	50	30/20	SW1/SW2
SPST040080R8	4-8	1.1	80	1.5	1	50	30/20	SW1/SW2
SPST040080R6	4-8	0.8	60	1.5	1	50	30/20	SW1/SW2
SPST080120R8	8-12	1.5	80	1.7	1	50	30/20	SW1/SW2
SPST080120R6	8-12	1.1	60	1.7	1	50	30/20	SW1/SW2
SPST120180R8	12-18	2.1	80	1.7	1	50	30/20	SW1/SW2
SPST120180R6	12-18	1.6	60	1.7	1	50	30/20	SW1/SW2

FEATURE:

- Solid State,Mixture Integrated
- High Speed,Low Loss,High Isolation
- Field Removable SMA(F) Connector
- Integrated with Driver



APPLICATION:

- Test equipment
- Radar&Warfare system
- Communication system

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	Isolation (dB.Min)	VSWR (Max)	Input Power (Max.W)	Switch Time(ns)	Current@ +5V/-5VDC (mA.Typ)	Case Type
Absorptive								
SPDT001005A8	0.1-0.5	1.6	80	1.5	0.2	50	60/40	DW1/DW2
SPDT001005A6	0.1-0.5	1.1	60	1.5	0.2	50	60/40	DW1/DW2
SPDT005020A8	0.5-2	1.7	80	1.5	0.2	50	60/40	DW1/DW2
SPDT005020A6	0.5-2	1.3	60	1.5	0.2	50	60/40	DW1/DW2
SPDT005180A8	0.5-18	3.1	80	2.2	0.2	50	60/40	DW1/DW2
SPDT005180A6	0.5-18	2.9	60	2.2	0.2	50	60/40	DW1/DW2
SPDT020040A8	2-4	1.7	80	1.5	0.2	50	60/40	DW1/DW2
SPDT020040A6	2-4	1.4	60	1.5	0.2	50	60/40	DW1/DW2
SPDT020180A8	2-18	3.1	80	2	0.2	50	60/40	DW1/DW2
SPDT020180A6	2-18	2.9	60	2	0.2	50	60/40	DW1/DW2
SPDT040080A8	4-8	1.9	80	1.5	0.2	50	60/40	DW1/DW2
SPDT040080A6	4-8	1.6	60	1.5	0.2	50	60/40	DW1/DW2
SPDT080120A8	8-12	2.3	80	1.7	0.2	50	60/40	DW1/DW2
SPDT080120A6	8-12	1.9	60	1.7	0.2	50	60/40	DW1/DW2
SPDT120180A8	12-18	2.7	80	1.7	0.2	50	60/40	DW1/DW2
SPDT120180A6	12-18	2.4	60	1.7	0.2	50	60/40	DW1/DW2

FEATURE:

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- High Speed,Low Loss,High Isolation
- Field Removable SMA(F) Connector
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APPLICATION:

- Test equipment
- Radar&Warfare system
- Communication system

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	Isolation (dB.Min)	VSWR (Max)	Input Power (Max.W)	Switch Time(ns)	Current@ +5V/-5VDC (mA.Typ)	Case Type
Reflective								
SPDT001005R8	0.1-0.5	1.2	80	1.5	0.5	50	60/40	DW1/DW2
SPDT001005R6	0.1-0.5	0.7	60	1.5	0.5	50	60/40	DW1/DW2
SPDT012013R5	1.215-1.37	0.9	50	1.4	0.04	100	30/50	DW1
SPDT005020R8	0.5-2	1.3	80	1.5	0.5	50	60/40	DW1/DW2
SPDT005020R6	0.5-2	0.9	60	1.5	0.5	50	60/40	DW1/DW2
SPDT005180R8	0.5-18	2.7	80	2.2	0.5	50	60/40	DW1/DW2
SPDT005180R6	0.5-18	2.5	60	2.2	0.5	50	60/40	DW1/DW2
SPDT020040R8	2-4	1.3	80	1.5	0.5	50	60/40	DW1/DW2
SPDT020040R6	2-4	1	60	1.5	0.5	50	60/40	DW1/DW2
SPDT020180R8	2-18	2.7	80	2	0.5	50	60/40	DW1/DW2
SPDT020180R6	2-18	2.5	60	2	0.5	50	60/40	DW1/DW2
SPDT027029R2	2.7-2.9	0.5	20	1.3	1	100	60/40	DW1
SPDT040080R8	4-8	1.5	80	1.5	0.5	50	60/40	DW1/DW2
SPDT040080R6	4-8	1.2	60	1.5	0.5	50	60/40	DW1/DW2
SPDT080120R8	8-12	1.9	80	1.6	0.5	50	60/40	DW1/DW2
SPDT080120R6	8-12	1.5	60	1.6	0.5	50	60/40	DW1/DW2
SPDT120180R8	12-18	2.3	80	1.7	0.5	50	60/40	DW1/DW2
SPDT120180R6	12-18	1.8	60	1.7	0.5	50	60/40	DW1/DW2
SPDT190210R6	19-21	0.6	60	1.5	0.2	50	60/40	DW1/DW2

FEATURE:

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- High Speed,Low Loss,High Isolation
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- Integrated with Driver



APPLICATION:

- Test equipment
- Radar&Warfare system
- Communication system

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	Isolation (dB.Min)	VSWR (Max)	Input Power (Max.W)	Switch Time(ns)	Current@ +5V/-5VDC (mA.Typ)	Case Type
Absorptive								
SP3T001005A8	0.1-0.5	1.4	80	1.5	0.2	50	90/60	3W1/3W2
SP3T001005A6	0.1-0.5	1.2	60	1.5	0.2	50	90/60	3W1/3W2
SP3T005020A8	0.5-2	1.7	80	1.5	0.2	50	90/60	3W1/3W2
SP3T005020A6	0.5-2	1.5	60	1.5	0.2	50	90/60	3W1/3W2
SP3T005180A8	0.5-18	3.3	80	2	0.2	50	90/60	3W1/3W2
SP3T005180A6	0.5-18	3.1	60	2	0.2	50	90/60	3W1/3W2
SP3T020040A8	2-4	1.9	80	1.5	0.2	50	90/60	3W1/3W2
SP3T020040A6	2-4	1.7	60	1.5	0.2	50	90/60	3W1/3W2
SP3T020180A8	2-18	3.3	80	2	0.2	50	90/60	3W1/3W2
SP3T020180A6	2-18	3.1	60	2	0.2	50	90/60	3W1/3W2
SP3T040080A8	4-8	2.3	80	1.5	0.2	50	90/60	3W1/3W2
SP3T040080A6	4-8	1.9	60	1.5	0.2	50	90/60	3W1/3W2
SP3T080120A8	8-12	2.7	80	1.6	0.2	50	90/60	3W1/3W2
SP3T080120A6	8-12	2.3	60	1.6	0.2	50	90/60	3W1/3W2
SP3T120180A8	12-18	3.1	80	1.9	0.2	50	90/60	3W1/3W2
SP3T120180A6	12-18	2.5	60	1.9	0.2	50	90/60	3W1/3W2

FEATURE:

- Solid State,Mixture Integrated
- High Speed,Low Loss,High Isolation
- Field Removable SMA(F) Connector
- Integrated with Driver



APPLICATION:

- Test equipment
- Radar&Warfare system
- Communication system

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	Isolation (dB.Min)	VSWR (Max)	Input Power (Max.W)	Switch Time(ns)	Current@ +5V/-5VDC (mA.Typ)	Case Type
Reflective								
SP3T001005R8	0.1-0.5	1.3	80	1.5	0.5	50	90/60	3W1/3W2
SP3T001005R6	0.1-0.5	1.1	60	1.5	0.5	50	90/60	3W1/3W2
SP3T005020R8	0.5-2	1.5	80	1.5	0.5	50	90/60	3W1/3W2
SP3T005020R6	0.5-2	1.1	60	1.5	0.5	50	90/60	3W1/3W2
SP3T005180R8	0.5-18	3.1	80	2	0.2	50	90/60	3W1/3W2
SP3T005180R6	0.5-18	2.7	60	2	0.2	50	90/60	3W1/3W2
SP3T020040R8	2-4	1.5	80	1.5	0.5	50	90/60	3W1/3W2
SP3T020040R6	2-4	1.3	60	1.5	0.5	50	90/60	3W1/3W2
SP3T020180R8	2-18	3.1	80	2	0.5	50	90/60	3W1/3W2
SP3T020180R6	2-18	2.7	60	2	0.5	50	90/60	3W1/3W2
SP3T040080R8	4-8	1.9	80	1.5	0.5	50	90/60	3W1/3W2
SP3T040080R6	4-8	1.6	60	1.5	0.5	50	90/60	3W1/3W2
SP3T060180R6L	6-18	4.5	50	2.1	0.5	50	90/60	3W1
SP3T080120R8	8-12	2.3	80	1.6	0.5	50	90/60	3W1/3W2
SP3T080120R6	8-12	1.9	60	1.6	0.5	50	90/60	3W1/3W2
SP3T120180R8	12-18	2.6	80	1.7	0.5	50	90/60	3W1/3W2
SP3T120180R6	12-18	2.1	60	1.7	0.5	50	90/60	3W1/3W2

FEATURE:

- Solid State,Mixture Integrated
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- Field Removable SMA(F) Connector
- Integrated with Driver



APPLICATION:

- Test equipment
- Radar&Warfare system
- Communication system

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	Isolation (dB.Min)	VSWR (Max)	Input Power (Max.W)	Switch Time(ns)	Current@ +5V/-5VDC (mA.Typ)	Case Type
Absorptive								
SP4T001005A8	0.1-0.5	1.6	80	1.5	0.2	50	120/80	4W1/4W2
SP4T001005A6	0.1-0.5	1.3	60	1.5	0.2	50	120/80	4W1/4W2
SP4T005020A8	0.5-2	1.8	80	1.5	0.2	50	120/80	4W1/4W2
SP4T005020A6	0.5-2	1.5	60	1.5	0.2	50	120/80	4W1/4W2
SP4T005180A8	0.5-18	3.8	80	2.2	0.2	50	120/80	4W1/4W2
SP4T005180A6	0.5-18	3.5	60	2.2	0.2	50	120/80	4W1/4W2
SP4T020040A8	2-4	1.9	80	1.5	0.2	50	120/80	4W1/4W2
SP4T020040A6	2-4	1.7	60	1.5	0.2	50	120/80	4W1/4W2
SP4T020180A8	2-18	3.8	80	2	0.2	50	120/80	4W1/4W2
SP4T020180A6	2-18	3.5	60	2	0.2	50	120/80	4W1/4W2
SP4T040080A6	4-8	2.3	80	1.5	0.2	50	120/80	4W1/4W2
SP4T040080A6	4-8	2	60	1.5	0.2	50	120/80	4W1/4W2
SP4T080120A8	8-12	2.9	80	1.7	0.2	50	120/80	4W1/4W2
SP4T080120A6	8-12	2.5	60	1.7	0.2	50	120/80	4W1/4W2
SP4T120180A8	12-18	3.6	80	1.7	0.2	50	120/80	4W1/4W2
SP4T120180A6	12-18	3.3	60	1.7	0.2	50	120/80	4W1/4W2

FEATURE:

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APPLICATION:

- Test equipment
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- Communication system

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	Isolation (dB.Min)	VSWR (Max)	Input Power (Max.W)	Switch Time(ns)	Current@ +5V/-5VDC (mA.Typ)	Case Type
Reflective								
SP4T001005R8	0.1-0.5	1.2	80	1.5	0.5	50	120/80	4W1/4W2
SP4T001005R6	0.1-0.5	1	60	1.5	0.5	50	120/80	4W1/4W2
SP4T005020R8	0.5-2	1.5	80	1.5	0.5	50	120/80	4W1/4W2
SP4T005020R6	0.5-2	1.3	60	1.5	0.5	50	120/80	4W1/4W2
SP4T005180R8	0.5-18	3.3	80	2	0.5	50	120/80	4W1/4W2
SP4T005180R6	0.5-18	3.1	60	2	0.5	50	120/80	4W1/4W2
SP4T020040R8	2-4	1.7	80	1.5	0.5	50	120/80	4W1/4W2
SP4T020040R6	2-4	1.4	60	1.5	0.5	50	120/80	4W1/4W2
SP4T020180R8	2-18	3.3	80	2	0.5	50	120/80	4W1/4W2
SP4T020180R6	2-18	3.1	60	2	0.5	50	120/80	4W1/4W2
SP4T040080R8	4-8	1.9	80	1.5	0.5	50	120/80	4W1/4W2
SP4T040080R6	4-8	1.6	60	1.5	0.5	50	120/80	4W1/4W2
SP4T080120R8	8-12	2.7	80	1.6	0.5	50	120/80	4W1/4W2
SP4T080120R6	8-12	2.2	60	1.6	0.5	50	120/80	4W1/4W2
SP4T120180R8	12-18	3.1	80	1.6	0.5	50	120/80	4W1/4W2
SP4T120180R6	12-18	2.5	60	1.6	0.5	50	120/80	4W1/4W2

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Absorptive								
SP5T001005A8	0.1-0.5	1.5	80	1.5	0.2	50	150/100	5W1/5W2
SP5T001005A6	0.1-0.5	1.3	60	1.5	0.2	50	150/100	5W1/5W2
SP5T005020A8	0.5-2	2.2	80	1.5	0.2	50	150/100	5W1/5W2
SP5T005020A6	0.5-2	2	60	1.5	0.2	50	150/100	5W1/5W2
SP5T005180A8	0.5-18	4	80	2.2	0.2	50	150/100	5W1/5W2
SP5T005180A6	0.5-18	3.8	60	2.2	0.2	50	150/100	5W1/5W2
SP5T020040A8	2-4	2.5	80	1.5	0.2	50	150/100	5W1/5W2
SP5T020040A6	2-4	1.8	60	1.5	0.2	50	150/100	5W1/5W2
SP5T020180A8	2-18	4	80	2	0.2	50	150/100	5W1/5W2
SP5T020180A6	2-18	3.8	60	2	0.2	50	150/100	5W1/5W2
SP5T040080A8	4-8	2.5	80	1.5	0.2	50	150/100	5W1/5W2
SP5T040080A6	4-8	2.2	60	1.5	0.2	50	150/100	5W1/5W2
SP5T080120A8	8-12	3.1	80	1.7	0.2	50	150/100	5W1/5W2
SP5T080120A6	8-12	2.7	60	1.7	0.2	50	150/100	5W1/5W2
SP5T120180A8	12-18	3.7	80	1.7	0.2	50	150/100	5W1/5W2
SP5T120180A6	12-18	3.1	60	1.7	0.2	50	150/100	5W1/5W2

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Reflective								
SP5T001005R8	0.1-0.5	1.2	80	1.5	0.5	50	150/100	5W1/5W2
SP5T001005R6	0.1-0.5	1	60	1.5	0.5	50	150/100	5W1/5W2
SP5T005020R8	0.5-2	1.5	80	1.5	0.5	50	150/100	5W1/5W2
SP5T005020R6	0.5-2	1.3	60	1.5	0.5	50	150/100	5W1/5W2
SP5T005180R8	0.5-18	3.7	80	2.2	0.5	50	150/100	5W1/5W2
SP5T005180R6	0.5-18	3.3	60	2.2	0.5	50	150/100	5W1/5W2
SP5T020040R8	2-4	1.7	80	1.5	0.5	50	150/100	5W1/5W2
SP5T020040R6	2-4	1.5	60	1.5	0.2	50	150/100	5W1/5W2
SP5T020180R8	2-18	3.7	80	2	0.5	50	150/100	5W1/5W2
SP5T020180R6	2-18	3.3	60	2	0.5	50	150/100	5W1/5W2
SP5T040080R8	4-8	2.1	80	1.5	0.5	50	150/100	5W1/5W2
SP5T040080R6	4-8	1.8	60	1.5	0.5	50	150/100	5W1/5W2
SP5T080120R8	8-12	2.7	80	1.7	0.5	50	150/100	5W1/5W2
SP5T080120R6	8-12	2.4	60	1.7	0.5	50	150/100	5W1/5W2
SP5T120180R8	12-18	3.3	80	1.7	0.5	50	150/100	5W1/5W2
SP5T120180R6	12-18	3	60	1.7	0.5	50	150/100	5W1/5W2

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Absorptive								
SP6T001005A8	0.1-0.5	1.7	80	1.5	0.2	50	180/120	6W1/6W2
SP6T001005A6	0.1-0.5	1.5	60	1.5	0.2	50	180/120	6W1/6W2
SP6T005020A8	0.5-2	2.5	80	1.5	0.2	50	180/120	6W1/6W2
SP6T005020A6	0.5-2	2	60	1.5	0.2	50	180/120	6W1/6W2
SP6T005180A8	0.5-18	4.3	80	2.2	0.2	50	180/120	6W1/6W2
SP6T005180A6	0.5-18	4	60	2.2	0.2	50	180/120	6W1/6W2
SP6T020040A8	2-4	2.1	80	1.5	0.2	50	180/120	6W1/6W2
SP6T020040A6	2-4	1.9	60	1.5	0.2	50	180/120	6W1/6W2
SP6T020180A8	2-18	4.3	80	2	0.2	50	180/120	6W1/6W2
SP6T020180A6	2-18	4	60	2	0.2	50	180/120	6W1/6W2
SP6T040080A8	4-8	2.5	80	1.5	0.2	50	180/120	6W1/6W2
SP6T040080A6	4-8	2.2	60	1.5	0.2	50	180/120	6W1/6W2
SP6T080120A8	8-12	3.3	80	1.7	0.2	50	180/120	6W1/6W2
SP6T080120A6	8-12	2.9	60	1.7	0.2	50	180/120	6W1/6W2
SP6T120180A8	12-18	3.9	80	1.7	0.2	50	180/120	6W1/6W2
SP6T120180A6	12-18	3.5	60	1.7	0.2	50	180/120	6W1/6W2

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Reflective								
SP6T001005R8	0.1-0.5	1.5	80	1.5	0.5	50	180/120	6W1/6W2
SP6T001005R6	0.1-0.5	1.1	60	1.5	0.5	50	180/120	6W1/6W2
SP6T005020R8	0.5-2	1.7	80	1.5	0.5	50	180/120	6W1/6W2
SP6T005020R6	0.5-2	1.3	60	1.5	0.5	50	180/120	6W1/6W2
SP6T005180R8	0.5-18	3.7	80	2.2	0.5	50	180/120	6W1/6W2
SP6T005180R6	0.5-18	3.5	60	2.2	0.5	50	180/120	6W1/6W2
SP6T020040R8	2-4	1.7	80	1.5	0.5	50	180/120	6W1/6W2
SP6T020040R6	2-4	1.5	60	1.5	0.5	50	180/120	6W1/6W2
SP6T020180R8	2-18	3.7	80	2	0.5	50	180/120	6W1/6W2
SP6T020180R6	2-18	3.5	60	2	0.5	50	180/120	6W1/6W2
SP6T040080R8	4-8	2.1	80	1.5	0.5	50	180/120	6W1/6W2
SP6T040080R6	4-8	1.9	60	1.5	0.5	50	180/120	6W1/6W2
SP6T080120R8	8-12	2.6	80	1.7	0.5	50	180/120	6W1/6W2
SP6T080120R6	8-12	2.1	60	1.7	0.5	50	180/120	6W1/6W2
SP6T120180R8	12-18	3.5	80	1.7	0.5	50	180/120	6W1/6W2
SP6T120180R6	12-18	2.9	60	1.7	0.5	50	180/120	6W1/6W2

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Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	Isolation (dB.Min)	VSWR (Max)	Input Power (Max.W)	Switch Time(ns)	Current@ +5V/-5VDC (mA. Typ)	Case Type
Absorptive								
SP7T001005A8	0.1-0.5	2.3	80	1.6	0.2	50	210/140	7W1/7W2
SP7T001005A6	0.1-0.5	1.9	60	1.6	0.2	50	210/140	7W1/7W2
SP7T005020A8	0.5-2	2.9	80	1.5	0.2	50	210/140	7W1/7W2
SP7T005020A6	0.5-2	2.5	60	1.5	0.2	50	210/140	7W1/7W2
SP7T005180A8	0.5-18	4.8	80	2.2	0.2	50	210/140	7W1/7W2
SP7T005180A6	0.5-18	4.5	60	2.2	0.2	50	210/140	7W1/7W2
SP7T020040A8	2-4	3.4	80	1.7	0.2	50	210/140	7W1/7W2
SP7T020040A6	2-4	3	60	1.7	0.2	50	210/140	7W1/7W2
SP7T020180A8	2-18	4.6	80	2	0.2	50	210/140	7W1/7W2
SP7T020180A6	2-18	4.2	60	2	0.2	50	210/140	7W1/7W2
SP7T040080A8	4-8	3.5	80	1.7	0.2	50	210/140	7W1/7W2
SP7T040080A6	4-8	3.1	60	1.7	0.2	50	210/140	7W1/7W2
SP7T080120A8	8-12	4.4	80	1.7	0.2	50	210/140	7W1/7W2
SP7T080120A6	8-12	4	60	1.7	0.2	50	210/140	7W1/7W2
SP7T120180A8	12-18	4.5	80	1.7	0.2	50	210/140	7W1/7W2
SP7T120180A6	12-18	4.1	60	1.7	0.2	50	210/140	7W1/7W2

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Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	Isolation (dB.Min)	VSWR (Max)	Input Power (Max.W)	Switch Time(ns)	Current@ +5V/-5VDC (mA.Typ)	Case Type
Reflective								
SP7T001005R8	0.1-0.5	1.6	80	1.5	0.5	50	210/140	7W1/7W2
SP7T001005R6	0.1-0.5	1.2	60	1.5	0.5	50	210/140	7W1/7W2
SP7T005020R8	0.5-2	1.9	80	1.5	0.5	50	210/140	7W1/7W2
SP7T005020R6	0.5-2	1.5	60	1.5	0.5	50	210/140	7W1/7W2
SP7T005180R8	0.5-18	4.4	80	2.2	0.5	50	210/140	7W1/7W2
SP7T005180R6	0.5-18	4.2	60	2.2	0.5	50	210/140	7W1/7W2
SP7T020040R8	2-4	2.1	80	1.5	0.5	50	210/140	7W1/7W2
SP7T020040R6	2-4	1.9	60	1.5	0.5	50	210/140	7W1/7W2
SP7T020180R8	2-18	4.4	80	2	0.5	50	210/140	7W1/7W2
SP7T020180R6	2-18	4.2	60	2	0.5	50	210/140	7W1/7W2
SP7T040080R8	4-8	2.5	80	1.5	0.5	50	210/140	7W1/7W2
SP7T040080R6	4-8	2.1	60	1.5	0.5	50	210/140	7W1/7W2
SP7T080120R8	8-12	3.1	80	1.7	0.5	50	210/140	7W1/7W2
SP7T080120R6	8-12	2.7	60	1.7	0.5	50	210/140	7W1/7W2
SP7T120180R8	12-18	3.9	80	1.7	0.5	50	210/140	7W1/7W2
SP7T120180R6	12-18	3.4	60	1.7	0.5	50	210/140	7W1/7W2

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Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	Isolation (dB.Min)	VSWR (Max)	Input Power (Max.W)	Switch Time(ns)	Current@ +5V/-5VDC (mA.Typ)	Case Type
Absorptive								
SP8T001005A8	0.1-0.5	2.4	80	1.7	0.2	50	240/160	8W1/8W2
SP8T001005A6	0.1-0.5	1.8	60	1.7	0.2	50	240/160	8W1/8W2
SP8T005020A8	0.5-2	2.9	80	1.6	0.2	50	240/160	8W1/8W2
SP8T005020A6	0.5-2	2.3	60	1.6	0.2	50	240/160	8W1/8W2
SP8T005180A8	0.5-18	5.1	80	2.2	0.2	50	240/160	8W1/8W2
SP8T005180A6	0.5-18	4.6	60	2.2	0.2	50	240/160	8W1/8W2
SP8T020040A8	2-4	3.2	80	1.7	0.2	50	240/160	8W1/8W2
SP8T020040A6	2-4	2.6	60	1.7	0.2	50	240/160	8W1/8W2
SP8T020180A8	2-18	4.9	80	2	0.2	50	240/160	8W1/8W2
SP8T020180A6	2-18	4.4	60	2	0.2	50	240/160	8W1/8W2
SP8T040080A8	4-8	3.3	80	1.7	0.2	50	240/160	8W1/8W2
SP8T040080A6	4-8	2.7	60	1.7	0.2	50	240/160	8W1/8W2
SP8T080120A8	8-12	4.8	80	1.8	0.2	50	240/160	8W1/8W2
SP8T080120A6	8-12	4.2	60	1.8	0.2	50	240/160	8W1/8W2
SP8T120180A8	12-18	1.9	80	1.8	0.2	50	240/160	8W1/8W2
SP8T120180A6	12-18	4.3	60	1.8	0.2	50	240/160	8W1/8W2

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Reflective								
SP8T001005R8	0.1-0.5	1.7	80	1.6	0.5	50	240/160	8W1/8W2
SP8T001005R6	0.1-0.5	1.5	60	1.6	0.5	50	240/160	8W1/8W2
SP8T005020R8	0.5-2	2.1	80	1.6	0.5	50	240/160	8W1/8W2
SP8T005020R6	0.5-2	1.7	60	1.6	0.5	50	240/160	8W1/8W2
SP8T005180R8	0.5-18	4.6	80	2.2	0.5	50	240/160	8W1/8W2
SP8T005180R6	0.5-18	4.2	60	2.2	0.5	50	240/160	8W1/8W2
SP8T020040R8	2-4	2.6	80	1.7	0.5	50	240/160	8W1/8W2
SP8T020040R6	2-4	2.2	60	1.7	0.5	50	240/160	8W1/8W2
SP8T020180R8	2-18	4.4	80	2	0.5	50	240/160	8W1/8W2
SP8T020180R6	2-18	4.1	60	2	0.5	50	240/160	8W1/8W2
SP8T040080R8	4-8	2.7	80	1.7	0.5	50	240/160	8W1/8W2
SP8T040080R6	4-8	2.3	60	1.7	0.5	50	240/160	8W1/8W2
SP8T080120R8	8-12	4	80	1.8	0.5	50	240/160	8W1/8W2
SP8T080120R6	8-12	3.8	60	1.8	0.5	50	240/160	8W1/8W2
SP8T120180R8	12-18	4.1	80	1.8	0.5	50	240/160	8W1/8W2
SP8T120180R6	12-18	3.9	60	1.8	0.5	50	240/160	8W1/8W2

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SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	Isolation (dB.Min)	VSWR (Max)	Input Power (Max.W)	Switch Time(ns)	Current@ +5V/-5VDC (mA.Typ)	Case Type
Absorptive								
SP10T001005A6	0.1-0.5	2.4	60	1.5	0.2	50	300/200	10W1
SP10T005020A6	0.5-2	2.8	60	1.5	0.5	50	300/200	10W1
SP10T020040A6	2-4	3.3	60	1.5	0.2	50	300/200	10W1
SP10T040080A6	4-8	3.7	60	1.5	0.5	50	300/200	10W1
SP10T080120A6	8-12	4.3	60	1.7	0.2	50	300/200	10W1
SP10T120180A6	12-18	4.9	55	1.7	0.2	50	300/200	10W1
Reflective								
SP10T001005R6	0.1-0.5	2.1	60	1.5	0.5	50	300/200	10W1
SP10T005020R6	0.5-2	2.4	60	1.5	0.5	50	300/200	10W1
SP10T020040R6	2-4	3.2	60	1.6	0.5	50	300/200	10W1
SP10T040080R6	4-8	3.5	60	1.6	0.5	50	300/200	10W1
SP10T080120R6	8-12	4.2	60	1.8	0.5	50	300/200	10W1
SP10T120180R6	12-18	4.5	55	1.7	0.5	50	300/200	10W1

FEATURE:

- Solid State,Mixture Integrated
- High Speed,Low Loss,High Isolation
- Field Removable SMA(F) Connector
- Integrated with Driver



APPLICATION:

- Test equipment
- Radar&Warfare system
- Communication system

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	Isolation (dB.Min)	VSWR (Max)	Input Power (Max.W)	Switch Time(ns)	Current@ +5V/-5VDC (mA.Typ)	Case Type
Absorptive								
SP12T001005A6	0.1-0.5	2.4	60	1.5	0.2	50	360/240	12W1
SP12T001010A8	0.1-1	3.5	80	1.5	0.2	50	360/240	12W2
SP12T005020A6	0.5-2	2.8	60	1.5	0.2	50	360/240	12W1
SP12T020040A6	2-4	3.3	60	1.5	0.2	50	360/240	12W1
SP12T040080A6	4-8	3.7	60	1.5	0.2	50	360/240	12W1
SP12T080120A6	8-12	4.3	60	1.7	0.2	50	360/240	12W1
SP12T120180A6	12-18	4.9	55	1.7	0.2	50	360/240	12W1
Reflective								
SP12T001005R6	0.1-0.5	2.3	60	1.5	0.5	50	360/240	12W1
SP12T005020R6	0.5-2	2.7	60	1.5	0.5	50	360/240	12W1
SP12T020040R6	2-4	3.1	60	1.5	0.5	50	360/240	12W1
SP12T040080R6	4-8	3.5	60	1.5	0.5	50	360/240	12W1
SP12T080120R6	8-12	5	60	2.0	0.5	50	360/240	12W2
SP12T120180R6	12-18	6.5	60	2.0	0.5	50	360/240	12W2



SPST HIGH POWER PIN SWITCH

FEATURE:

- Solid State,Mixture Integrated
- High Speed,Low Loss,High Isolation
- Field Removable SMA(F) Connector
- Integrated with Driver

APPLICATION:

- Test equipment
- Radar&Warfare system
- Communication system

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Max)	Isolation (dB.Min)	Power Handling (Watt)	VSWR (Max)	Switch Time(ns)	DC Power Supply@ +5VDC	Case Type
SPST001005R6H010	0.1-0.5	1	60	10	1.5	300	-12V/20mA	SW3/SW6
SPST005020R6H010	0.5-2	1.3	60	10	1.5	300	-12V/20mA	SW3/SW6
SPST008009R4H73K	0.8-0.9	0.6	45	1300	1.3	5000	-50V/40mA	SW6
SPST008009R4H13K	0.8-0.9	0.6	45	300	1.3	5000	-5V/200mA	SW6
SPST010020R3H100	1-2	0.5	30	100	1.4	800	-12V/20mA	SW4/SW6
SPST015030R3H100	1.5-3	0.6	30	100	1.4	800	-12V/20mA	SW4/SW6
SPST020040R6H010	2-4	1.7	60	10	1.5	300	-12V/20mA	SW3/SW6
SPST020040R2H100	2-4	0.6	25	100	1.5	800	-12V/20mA	SW4/SW6
SPST040080R2H100	4-8	0.8	20	100	1.7	800	-12V/20mA	SW4/SW6
SPST040080R6H010	4-8	2	60	10	1.5	300	-12V/20mA	SW3/SW6
SPST080120R6H005	8-12	1.8	60	5	1.7	120	-12V/220mA	SW5
SPST080120R6H010	8-12	2.5	60	10	1.7	300	-12V/20mA	SW3/SW6
SPST120180R6H010	12-18	2.7	60	10	2	300	-12V/20mA	SW3/SW6

FEATURE:

- Solid State,Mixture Integrated
- High Speed,Low Loss,High Isolation Integral with Driver
- Field Removable SMA(F) Connector
- Operating Temperature:-55~+85°C
- Contorl:TTL "0"Loss,TTL "1"Isolation

APPLICATION:

- Test equipment
- Radar&Warfare system
- Communication system



SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Max)	Isolation (dB.Min)	Power Handling (Watt)	VSWR (Max)	Switch Time(ns)	DC Power Supply@ +5VDC	Case Type
SPDT005003R3H075	0.03-0.512	1	30	75	1.8	800	- 48V/20mA	DW7
SPDT001005R6H010	0.1-0.5	1.2	60	10	1.5	300	-5V/40mA	DW3/DW6
SPDT001010R5H100	0.1-1	0.8	50	100	1.5	800	-60V/40mA	DW4/DW6
SPDT002050R4H300	0.2-5	0.5	45	300	1.4	800	-60V/40mA	DW5/DW6
SPDT002050R6H100	0.2-5	0.8	60	100	1.5	800	-100V/50mA	DW5/DW6
SPDT003008R5H200	0.3-0.8	0.5	50	200	1.25	10000	-60V/40mA	DW6
SPDT005020R6H010	0.5-2	1.5	60	10	1.5	300	-12V/40mA	DW3/DW6
SPDT005025R6H050	0.5-2.5	0.8	55	50	1.5	1000	-28V/40mA	DW4/DW6
SPDT005025R5H100	0.5-0.25	1.2	50	100	1.7	8000	-28V/50mA	DW4
SPDT005030R4H100	0.5-3	0.8	45	100	1.4	800	-60V/40mA	DW4/DW6
SPDT005040R4H100	0.5-4	0.8	45	100	1.5	800	-60V/40mA	DW4/DW6
SPDT009013R5H100	0.9-1.3	0.8	55	100	1.5	8000	-60V/50mA	DW4
SPDT010020R3H100	1-2	0.5	30	100	1.4	800	-48V/20mA	DW5/DW6
SPDT020040R6H010	2-4	1.9	60	10	1.5	300	-12V/40mA	DW5/DW6
SPDT020040R3H100	2-4	0.6	30	100	1.5	800	-12V/20mA	DW5/DW6
SPDT020060R4H050	2-6	0.8	35	50	1.7	800	-60V/10mA	DW5/DW6
SPDT020060R2H120	2-6	0.6	28	120	1.6	800	-48V/20mA	DW5/DW6
SPDT027030R3H300	2.7-3	0.8	30	300	1.4	2000	-28V/50mA	TBD
SPDT030080R5H200	3-8	0.5	50	200	1.25	800	-60V/40mA	DW5/DW6
SPDT040080R2H100	4-8	1	28	100	1.7	800	-48V/20mA	DW5/DW6
SPDT040080R6H010	4-8	2.1	60	10	1.7	300	-12V/40mA	DW3/DW6
SPDT044045R3H040	4.4-5	1	40	40	1.5	2000	-24V/50mA	DW4
SPDT044050R3H080	4.4-5	1	30	80	1.5	2000	-28V/50mA	DW4
SPDT060180R3H120	6-18	1.5	26	120	1.8	800	-48V/20mA	DW5/DW6
SPDT060180R3H070	6-18	1.5	35	70	1.5	100	-10V/40mA	DW5/DW6
SPDT060180R3H100	6-18	1.5	28	100	1.8	800	-48V/20mA	DW5/DW6
SPDT060180R3H007	6-18	1.8	35	7	1.5	100	-10V/40mA	DW3

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Max)	Isolation (dB.Min)	Power Handling (Watt)	VSWR (Max)	Switch Time(ns)	DC Power Supply@ +5VDC	Case Type
SPDT080120R2H130	8-12	1.2	30	130	2	800	-28V/50mA	DW5
SPDT080120R3H020	8-12	1.2	28	20	1.8	500	-12V/40mA	DW3/DW16
SPDT080120R3H010	8-12	1.6	28	10	1.8	100	-10V/40mA	DW3/DW6
SPDT080120R6H010	8-12	2.5	60	10	1.7	300	-12V/40mA	DW3/DW6
SPDT080120R3H130	8-12	1.6	35	130	1.6	10000	- 28V/50mA	DW4
SPDT090100R5H300	9-10	2	50	25	1.4	100	-10V/40mA	DW3/DW6
SPDT120180R3H010	12-18	2.2	28	10	1.8	100	-10V/40mA	DW3/DW6

FEATURE:

- Solid State,Mixture Integrated
- High Speed,Low Loss,High Isolation Integral with Driver
- Field Removable SMA(F) Connector
- Operating Temperature:-55~+85°C
- Contorl:TTL "0" Loss,TTL "1" Isolation



APPLICATION:

- Test equipment
- Radar&Warfare system
- Communication system

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Max)	Isolation (dB.Min)	Power Handling (Watt)	VSWR (Max)	Switch Time(ns)	DC Power Supply@ +5VDC	Case Type
SP4T								
SP4T008060R5H010	0.8-6	2.5	45	10	1.8	200	-12V/20mA	4W3/4W4
SP4T008060R5H002	0.8-6	2	50	2	1.8	80	-12V/20mA	4W3/4W4
SP9T								
SP9T095105R4H100	9.5-10.5	1.2	45	100	1.5	750	-38V//50mA	9W3/9W4
SP9T108115R2H010	10.8-11.5	2	20	10	2	5	-24V//50mA	9W3/9W4



SPDT WAVEGUIDE HIGH POWER SWITCH

FEATURE:

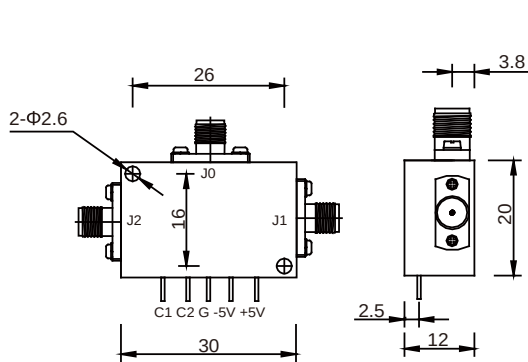
- Solid State,Mixture Integrated
- High Speed,Low Loss,High Isolation
- Field Removable SMA(F) Connector
- Integrated with Driver

APPLICATION:

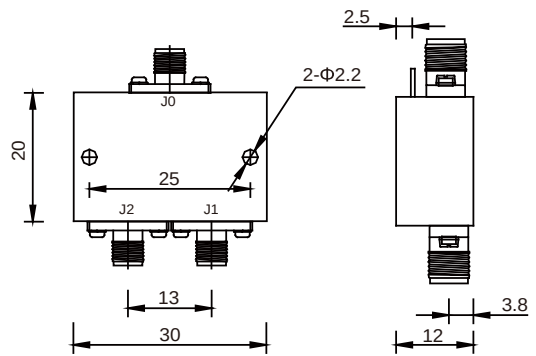
- Test equipment
- Radar&Warfare system
- Communication system

SPECIFICATIONS@25°C:

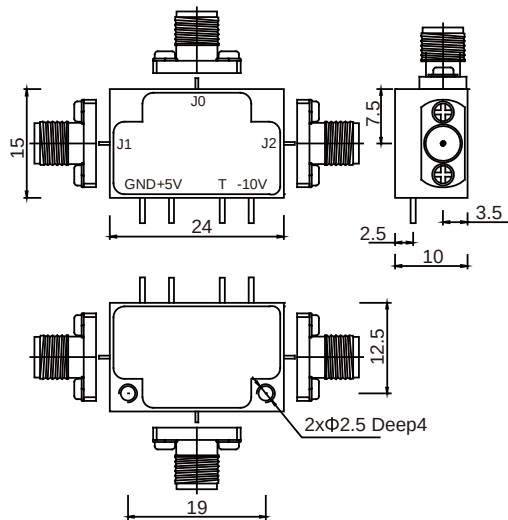
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SPDT093095H70KW	9.3-9.5	0.8	60	70	1.3	6000	2000	DW8
SPDT139142H2KW	13.95-14.25	0.5	20	30	1.2	2000	50	DW10
SPDT165174H2KW	16.55-17.45	0.4	40	100	1.3	3000	50	DW9
SPDT138143N1	13.4-14.2	0.6	40	50	1.2	3000	100	TBD



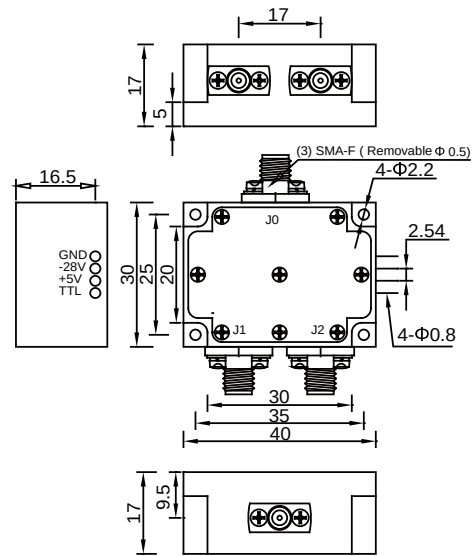
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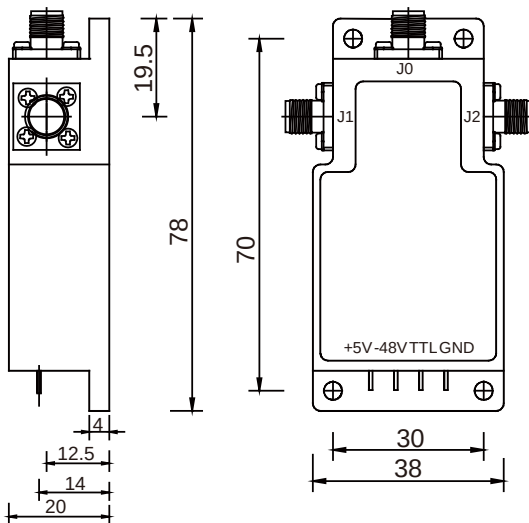
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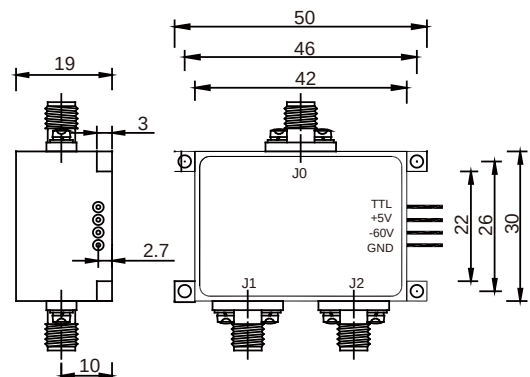
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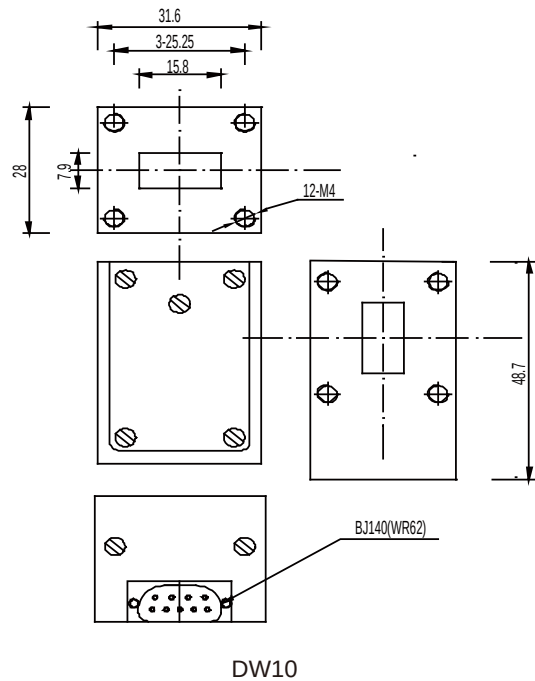
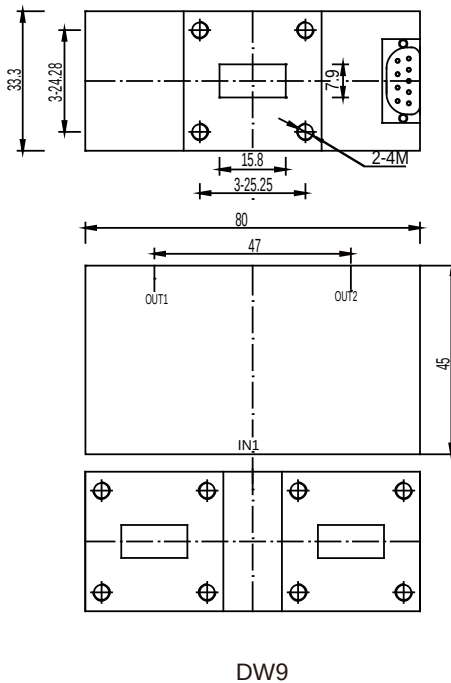
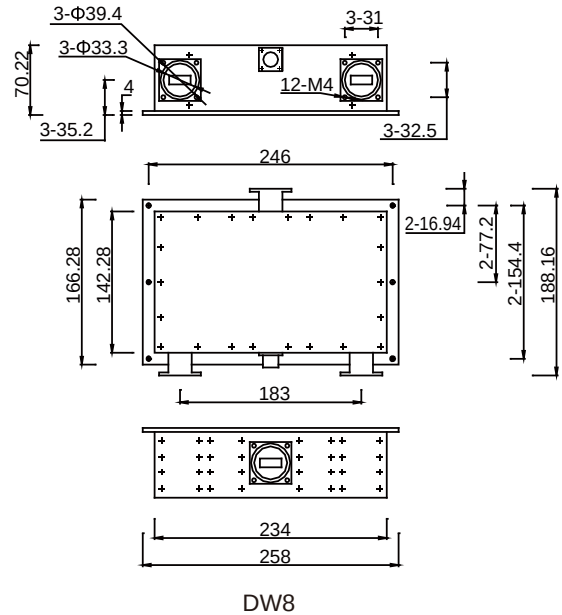
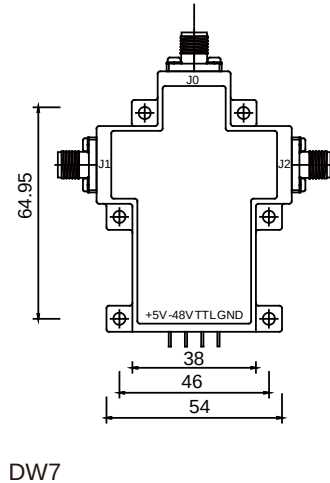
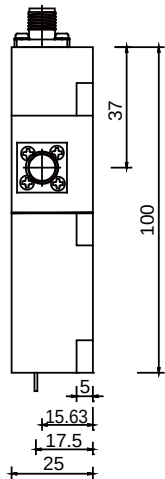
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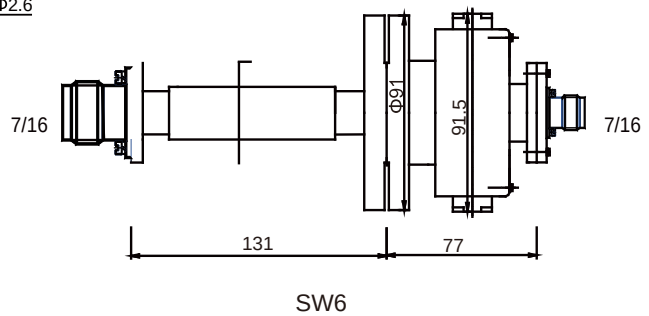
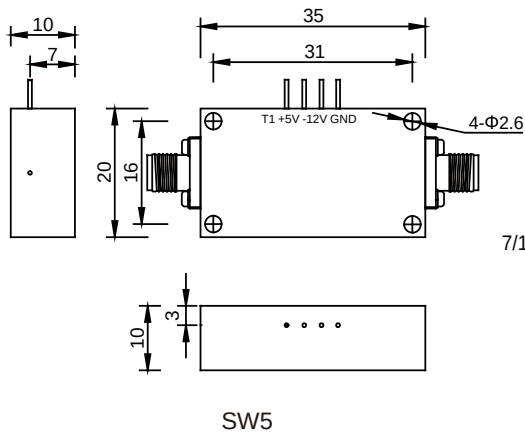
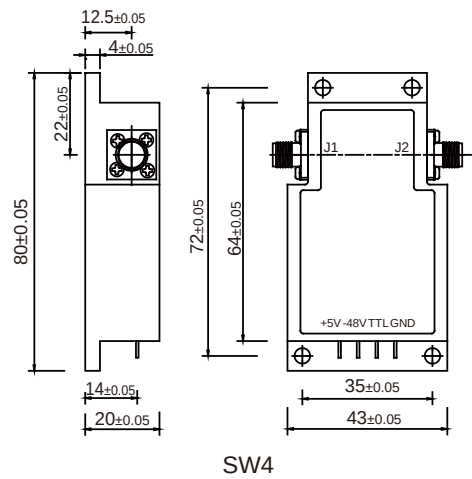
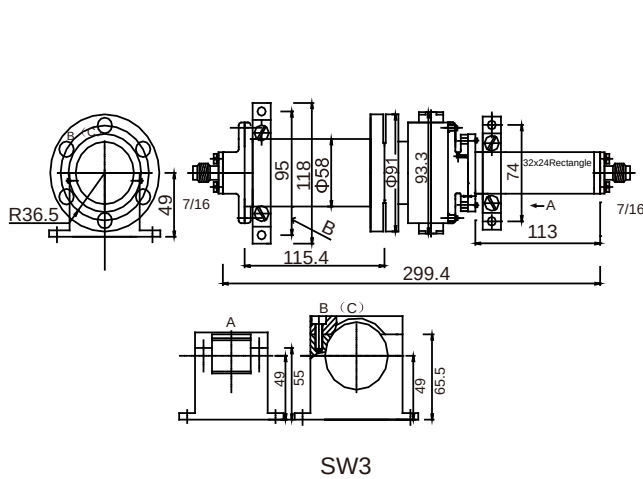
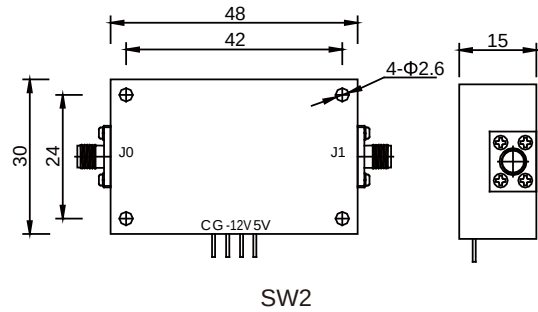
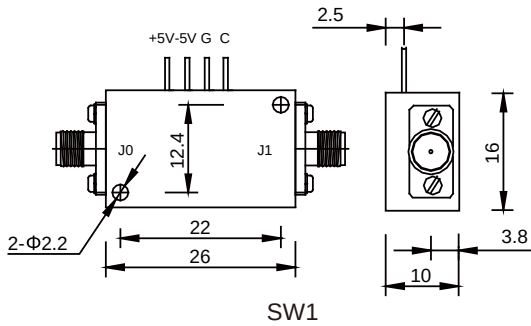


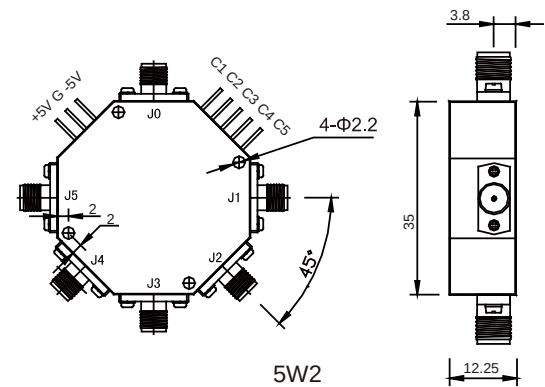
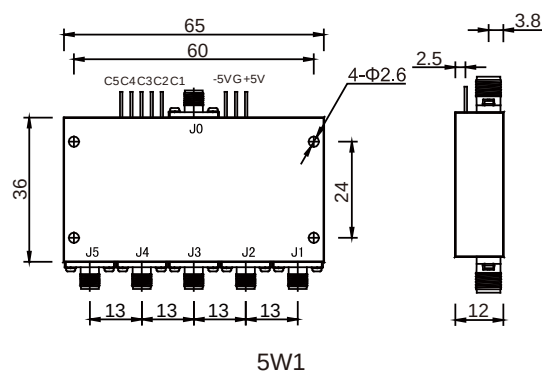
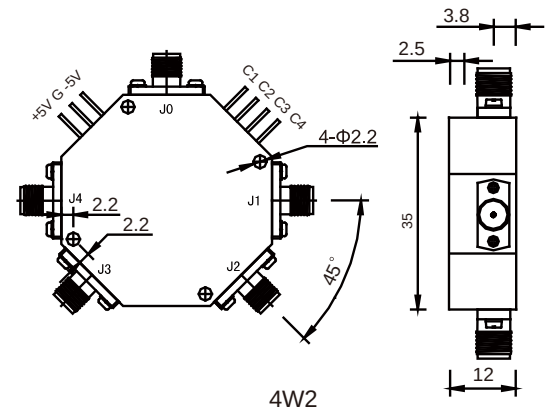
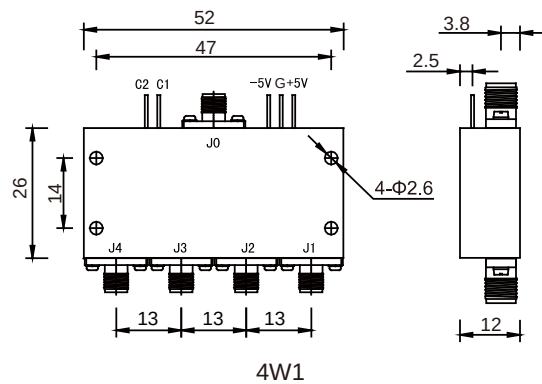
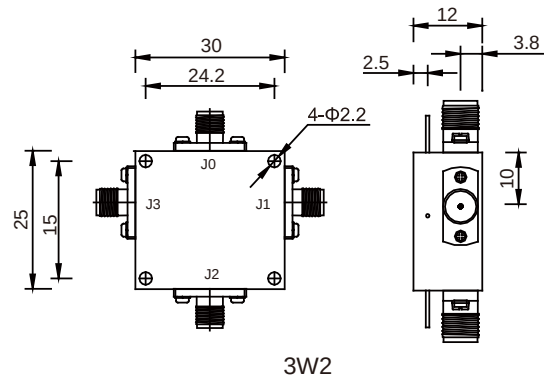
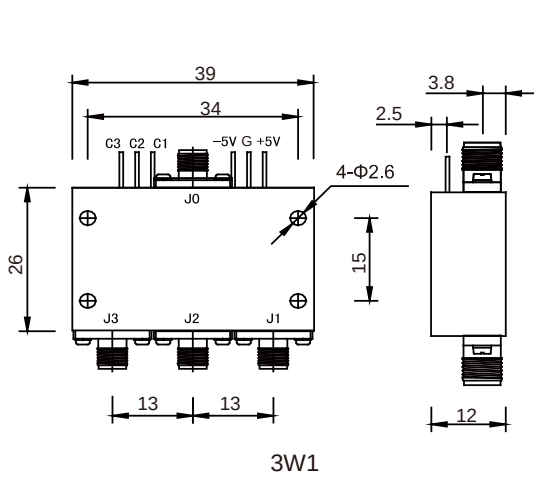
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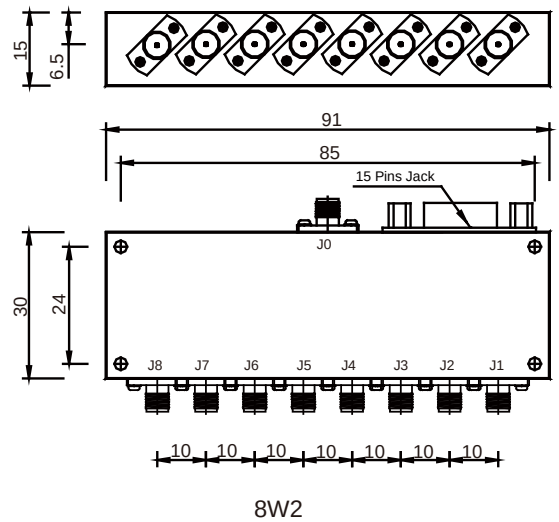
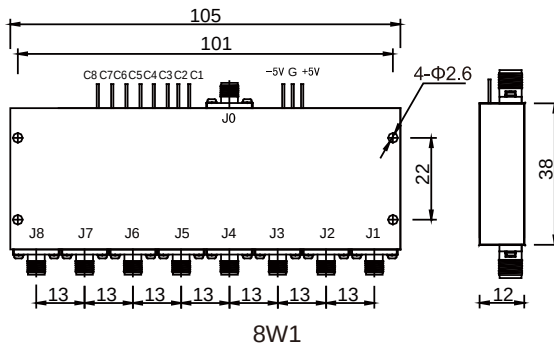
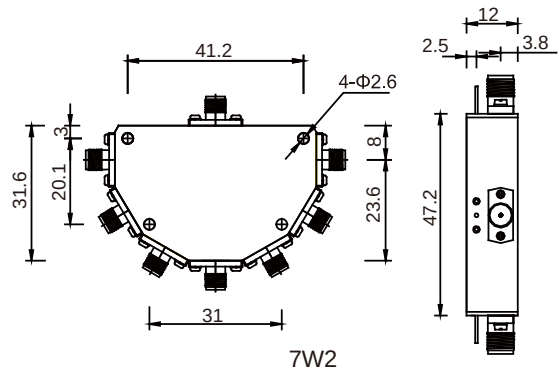
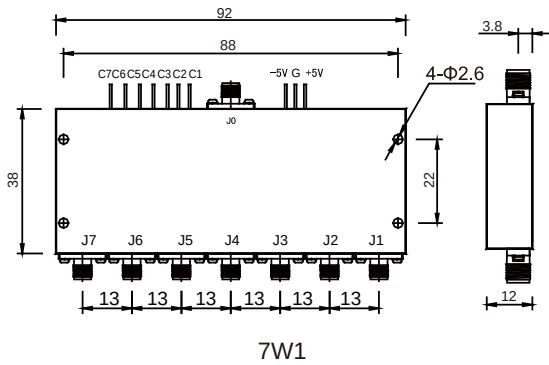
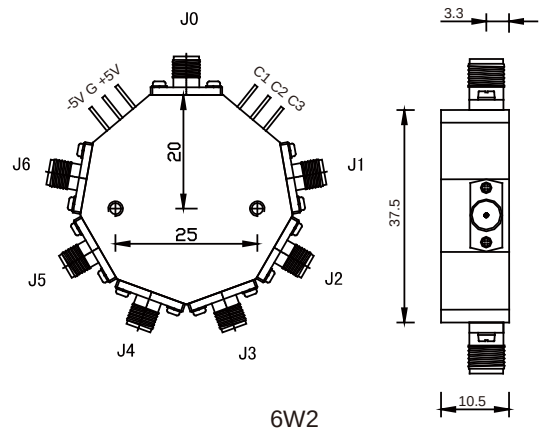
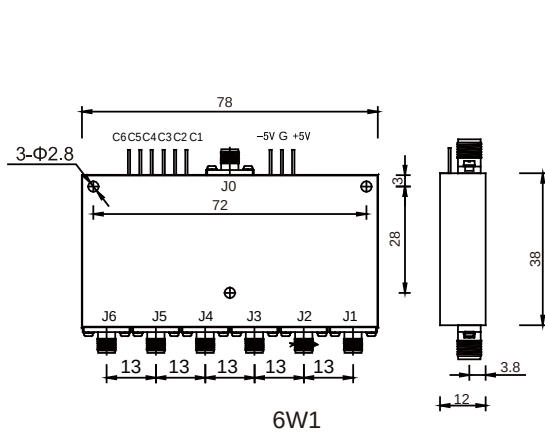


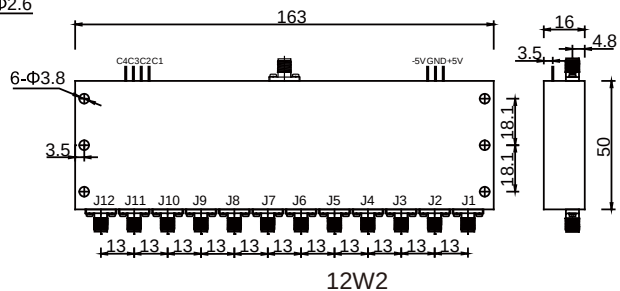
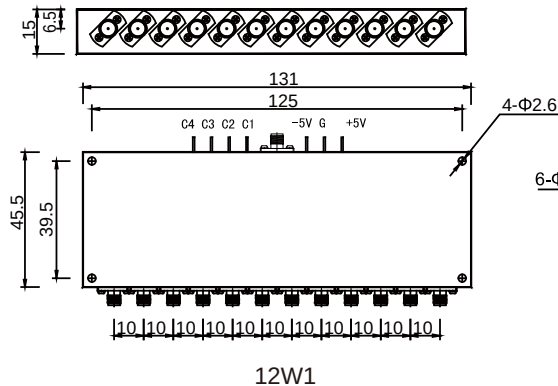
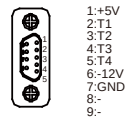
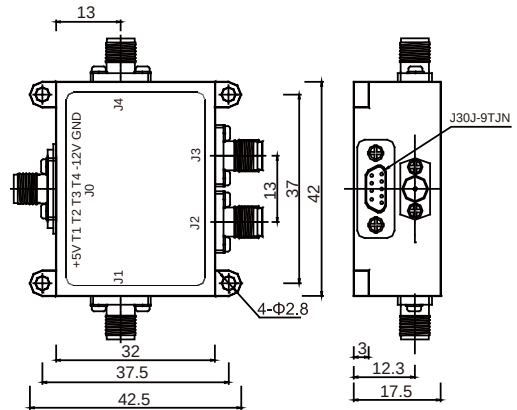
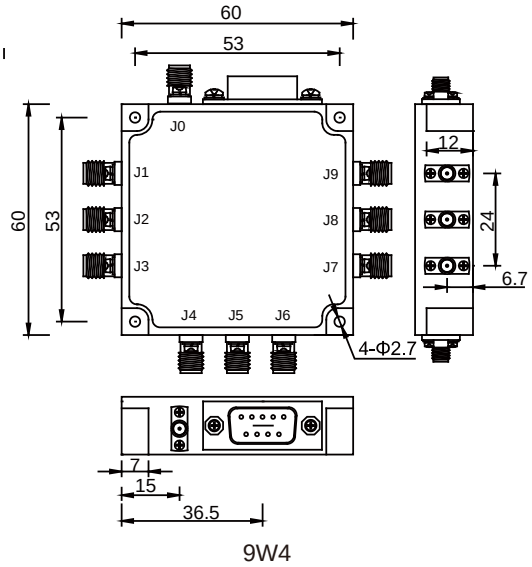
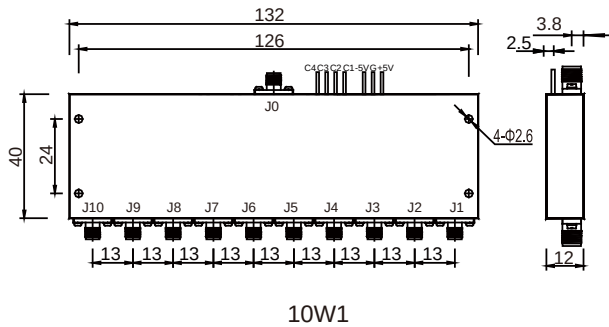
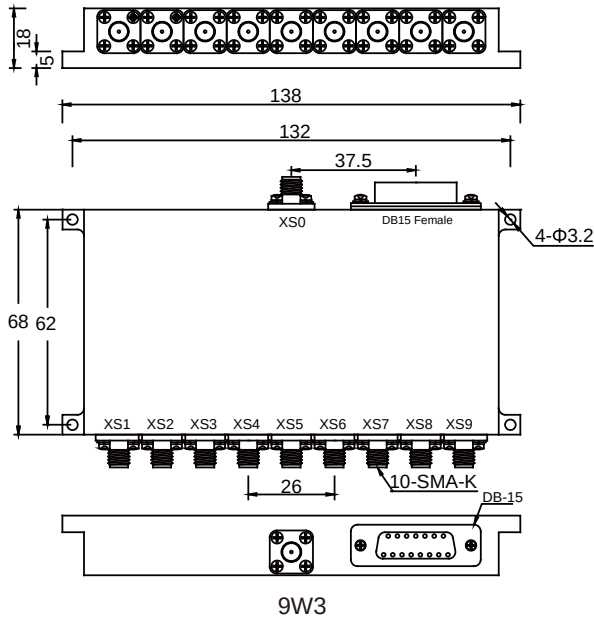
DW6











FEATURES

- Whole Solid State,Mixture Integrated
- Low Power Consumption
- Excellent Flatness&Accuracy
- Miniature Sizes for drop-In available



APPLICATIONS

- Military & Space
- Radar&Electronic warfare
- Test Equipment

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	Attenuation Range (dB)	Flatness (±dB)	Attenuation Accuracy (dB)	Speed (ns)	Step Size (dB)	Control Bits	VSWR (Max)	Current@ (+/-5VDC. Typ)	Case Type
MDC000180R30B6	0-18	4.5	0-30	0.8	1.5	100	0.5	6	2.2:1	50/50	T4
MDC000180R30B5	0-18	4.5	0-30	0.8	1.5	100	1	5	2.2:1	50/50	T4
MDC000180R30B4	0-18	4.5	0-30	0.8	1.5	250	2	4	2.2:1	50/50	T4
MDC000180R60B7	0-18	8.5	0-63	1.5	3.0	150	0.5	7	2.2:1	50/50	T5
MDC000180R60B6	0-18	8.5	0-64	1.5	3.0	150	1	6	2:1	50/50	T5
MDC000180R60B5	0-18	8.5	0-63	1.5	3.0	150	2	5	2:1	50/50	T5
MDC000130R30B6	0-13	3.2	0-31.5	0.5	1.5	45	0.5	6	2:1	50/50	T4
MDC000130R30B5	0-13	3.2	0-31.5	0.5	1.5	45	1	5	2:1	50/50	T4
MDC000130R30B4	0-13	3.2	0-31.5	0.5	1.5	45	2	4	2:1	50/50	T4
MDC000130R60B7	0-13	6	0-63	1	2.5	45	0.5	7	2:1	50/50	T5
MDC000130R60B6	0-13	6	0-63	1	2.5	45	1	6	2:1	50/50	T5
MDC000130R60B5	0-13	6	0-63	1	2.5	45	2	5	2:1	50/50	T5
MDC001005R30B6	0.1-0.5	1	0-30	0.3	0.3	100	0.5	5	1.5:1	50/50	T4
MDC001005R30B5	0.1-0.5	1	0-30	0.3	0.3	100	1	5	1.5:1	50/50	T4
MDC001005R30B4	0.1-0.5	1	0-30	0.3	0.3	100	2	5	1.5:1	50/50	T4
MDC001005R60B7	0.1-0.5	2	0-63	1.0	1.0	100	0.5	7	1.5:1	50/50	T5
MDC001005R60B6	0.1-0.5	2	0-63	1.0	1.0	100	1	6	1.5:1	50/50	T5
MDC001005R60B5	0.1-0.5	2	0-63	1.0	1.0	100	2	5	1.5:1	50/50	T5
MDC005010R30B6	0.5-1	2	0-30	0.3	1.0	100	0.5	6	1.5:1	50/50	T4
MDC005010R30B5	0.5-1	2	0-30	0.3	1.0	100	1	5	1.5:1	50/50	T4
MDC005010R30B4	0.5-1	2	0-30	0.3	1.0	100	2	4	1.5:1	50/50	T4
MDC005010R60B7	0.5-1	3.5	0-63	0.5	2.0	100	0.5	7	1.5:1	50/50	T5
MDC005010R60B6	0.5-1	3.5	0-63	0.5	2.0	100	1	6	1.5:1	50/50	T5
MDC005010R60B5	0.5-1	3.5	0-63	0.5	2.0	100	2	5	1.5:1	50/50	T5
MDC005020R30B6	0.5-2	2	0-30	0.3	1.0	150	0.5	6	1.8:1	50/50	T4
MDC005020R30B5	0.5-2	2	0-30	0.3	1.0	150	1	5	1.8:1	50/50	T4
MDC005020R30B4	0.5-2	2	0-30	0.3	1.0	150	2	4	1.8:1	50/50	T4



WIDE BAND DIGITAL CONTROL ATTENUATOR

Part Number	Frequency Range (GHz)	Insertion Loss (dB)	Attenuation Range (dB)	Flatness ($\pm$ dB)	Attenuation Accuracy (dB)	Speed (ns)	Step Size (dB)	Control Bits	VSWR (Max)	Current@ (+/-5VDC. Typ)	Case Type
MDC005020R60B7	0.5-2	3.5	0-63	0.5	2.0	150	0.5	7	1.8:1	50/50	T5
MDC005020R60B6	0.5-2	3.5	0-63	0.5	2.0	150	1	6	1.8:1	50/50	T5
MDC005020R60B5	0.5-2	3.5	0-63	0.5	2.0	150	2	5	1.8:1	50/50	T5
MDC005060R30B6	0.5-6	2.5	0-30	0.5	1.0	100	0.5	6	2:1	50/50	T4
MDC005060R30B5	0.5-6	2.5	0-30	0.5	1.0	100	1	5	2:1	50/50	T4
MDC005060R30B4	0.5-6	2.5	0-30	0.5	1.0	100	2	4	2:1	50/50	T4
MDC005060R60B7	0.5-6	5.8	0-63	0.5	2.0	150	0.5	7	2:1	50/50	T5
MDC005060R60B6	0.5-6	5.8	0-63	0.5	2.0	150	1	6	2:1	50/50	T5
MDC005060R60B5	0.5-6	5.8	0-63	0.5	2.0	150	2	5	2:1	50/50	T5
MDC005080R30B6	0.5-8	3.2	0-30	0.5	1.0	100	0.5	6	2:1	50/50	T4
MDC005080R30B5	0.5-8	3.2	0-30	0.5	1.0	100	1	5	2:1	50/50	T4
MDC005080R30B4	0.5-8	3.2	0-30	0.5	1.0	100	2	4	2:1	50/50	T4
MDC005080R60B7	0.5-8	6.4	0-63	0.8	2.5	150	0.5	7	2:1	50/50	T5
MDC005080R60B6	0.5-8	6.4	0-63	0.8	2.5	150	1	6	2:1	50/50	T5
MDC005080R60B5	0.5-8	6.4	0-63	0.8	2.5	150	2	5	2:1	50/50	T5
MDC005180R30B6	0.5-18	4.5	0-30	0.8	1.5	100	0.5	6	2.2:1	50/50	T4
MDC005180R30B5	0.5-18	4.5	0-30	0.8	1.5	100	1	5	2.2:1	50/50	T4
MDC005180R30B4	0.5-18	4.5	0-30	0.8	1.5	250	2	4	2.2:1	50/50	T4
MDC005180R60B7	0.5-18	8.5	0-63	1.5	3.0	150	0.5	7	2.2:1	50/50	T5
MDC005180R60B6	0.5-18	8.5	0-64	1.5	3.0	150	1	6	2:1	50/50	T5
MDC005180R60B5	0.5-18	8.5	0-63	1.5	3.0	150	2	5	2:1	50/50	T5
MDC010020R30B6	1-2	2	0-30	0.3	1.0	150	0.5	6	1.8:1	50/50	T4
MDC010020R30B5	1-2	2	0-30	0.3	1.0	150	1	5	1.8:1	50/50	T4
MDC010020R30B4	1-2	2	0-30	0.3	1.0	150	2	4	1.8:1	50/50	T4
MDC010020R60B7	1-2	3.5	0-63	0.5	2.0	150	0.5	7	1.8:1	50/50	T5
MDC010020R60B6	1-2	2.8	60	1.0	0.8	150	1	6	1.8:1	50/50	T5
MDC010020R60B5	1-2	3.5	0-63	0.5	2.0	150	2	5	1.8:1	50/50	T5
MDC020040R30B6	2-4	2	0-30	0.3	1.0	150	0.5	6	1.8:1	50/50	T4
MDC020040R30B5	2-4	2	0-30	0.3	1.0	150	1	5	1.8:1	50/50	T4
MDC020040R30B4	2-4	2	0-30	0.3	1.0	150	2	4	1.8:1	50/50	T4
MDC020040R60B7	2-4	3.5	0-63	0.5	2.0	150	0.5	7	1.8:1	50/50	T5
MDC020040R60B6	2-4	3.5	0-63	0.5	2.0	150	1	6	1.8:1	50/50	T5
MDC020040R60B5	2-4	3.5	0-63	0.5	2.0	150	2	5	1.8:1	50/50	T5
MDC020080R30B6	2-8	3.2	0-30	0.5	1.0	100	0.5	6	2:1	50/50	T4
MDC020080R30B5	2-8	3.2	0-30	0.5	1.0	100	1	5	2:1	50/50	T4
MDC020080R30B4	2-8	3.2	0-30	0.5	1.0	100	2	4	2:1	50/50	T4
MDC020080R60B7	2-8	6.4	0-63	0.8	2.5	150	0.5	7	2:1	50/50	T5



WIDE BAND DIGITAL CONTROL ATTENUATOR

Part Number	Frequency Range (GHz)	Insertion Loss (dB)	Attenuation Range (dB)	Flatness ($\pm$ dB)	Attenuation Accuracy (dB)	Speed (ns)	Step Size (dB)	Control Bits	VSWR (Max)	Current@ (+/-5VDC. Typ)	Case Type
MDC020080R60B6	2-8	6.4	0-63	0.8	2.5	150	1	6	2:1	50/50	T5
MDC020080R60B5	2-8	6.4	0-63	0.8	2.5	150	2	5	2:1	50/50	T5
MDC020180R30B6	2-18	4.5	0-30	0.8	1.5	100	0.5	6	2.2:1	50/50	T4
MDC020180R30B5	2-18	4.5	0-30	0.8	1.5	100	1	5	2.2:1	50/50	T4
MDC020180R30B4	2-18	4.5	0-30	0.8	1.5	250	2	4	2.2:1	50/50	T4
MCD020180R60B8	2-18	10	0-64	3.0	2.5	250	0.25	8	2.2:1	40/40	T3
MDC020180R60B7	2-18	8.5	0-63	1.5	3.0	150	0.5	7	2:1	50/50	T5
MDC020180R60B6	2-18	8.5	0-64	1.5	3.0	150	1	6	2:1	50/50	T5
MDC020180R60B5	2-18	8.5	0-63	1.5	3.0	150	2	5	2:1	50/50	T5
MDC040080R30B6	4-8	3.4	0-30	0.5	0.5	100	0.5	6	2:1	50/50	T4
MDC040080R30B5	4-8	3.4	0-30	0.5	0.5	100	1	5	2:1	50/50	T4
MDC040080R30B4	4-8	3.4	0-30	0.5	0.5	100	2	4	2:1	50/50	T4
MDC040080R60B7	4-8	6	0-63	1.5	1.5	150	0.5	7	2:1	50/50	T5
MDC040080R60B6	4-8	6	0-63	1.5	1.5	150	1	6	2:1	50/50	T5
MDC040080R60B5	4-8	6	0-63	1.5	1.5	150	2	5	2:1	50/50	T5
MDC080120R30B6	8-12	4	0-30	1	1.5	150	0.5	6	2:1	50/50	T4
MDC080120R30B5	8-12	4	0-30	1	1.5	150	1	5	2:1	50/50	T4
MDC080120R30B4	8-12	4	0-30	1	1.5	150	2	4	2:1	50/50	T4
MDC080120R60B7	8-12	8	0-63	1.5	2.0	150	0.5	7	2:1	50/50	T5
MDC080120R60B6	8-12	8	0-63	1.5	2.0	150	1	6	2:1	50/50	T5
MDC080120R60B5	8-12	8	0-63	1.5	2.0	150	2	5	2:1	50/50	T5
MDC080180R30B6	8-18	4.5	0-30	1.0	1.0	150	0.5	6	2:1	50/50	T4
MDC080180R30B5	8-18	4.5	0-30	1.0	1.0	150	1	5	2:1	50/50	T4
MDC080180R30B4	8-18	4.5	0-30	1.0	1.0	150	2	4	2:1	50/50	T4
MDC080180R60B7	8-18	8.5	0-63	1.5	2.0	150	0.5	7	2:1	50/50	T5
MDC080180R60B6	8-18	8.5	0-63	1.5	2.0	150	1	6	2:1	50/50	T5
MDC080180R60B5	8-18	8.5	0-63	1.5	2.0	150	2	5	2:1	50/50	T5
MDC120180R30B6	12-18	4.5	0-30	1.0	1.0	150	0.5	6	2:1	50/50	T4
MDC120180R30B5	12-18	4.5	0-30	1.0	1.0	150	1	5	2:1	50/50	T4
MDC120180R30B4	12-18	4.5	0-30	1.0	1.0	150	2	4	2:1	50/50	T4
MDC120180R60B7	12-18	8.5	0-63	1.5	2.0	150	0.5	7	2:1	50/50	T5
MDC120180R60B6	12-18	8.5	0-63	1.5	2.0	150	1	6	2:1	50/50	T5
MDC120180R60B5	12-18	8.5	0-63	1.5	2.0	150	2	5	2:1	50/50	T5

FEATURE:

- Whole Solid State,Mixture Integrated
- High Speed,Low Loss,High Precision
- Field Removable SMA(F) Connector
- Operating Temperatuer:-55~+85°C
- Wideband,High Reliability



APPLICATION:

- Test Equipment
- Subsystems
- Prototypes

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB)	VSWR (Max)	Attenuate (dB.Max)	Input power (W.Max)	Flatness (±dB)	Respose time (ns.Max)	Control (mA@1V)	Case Type
MCC001005R60	0.1-0.5	0.5	1.5	60	0.5	2	1000	0-20	AT1
MCC005010F60	0.5-1	0.5	1.5	60	0.5	1.5	100	0-20	AT1
MCC005010R60	0.5-1	0.6	1.5	60	0.5	1.5	1000	0-20	AT1
MCC050020R60	0.5-2	1	1.9	60	0.5	2.5	1000	0-20	AT1
MCC010020R60	1-2	0.7	1.5	60	0.5	1.5	100	0-20	AT1
MCC010020F60	1-2	0.7	1.5	60	0.5	1.5	100	0-20	AT1
MCC010020A80	1-2	1.1	1.5	80	0.2	1	1000	0-20	AT1
MCC010180R60	1-18	2.5	2.5	60	0.5	4	1000	0-20	AT1
MCC020040R60	2-4	0.9	1.5	60	0.5	1.5	1000	0-20	AT1
MCC020040F60	2-4	1	1.5	60	0.5	1.5	100	0-20	AT1
MCC020040A80	2-4	1.7	1.5	80	0.2	1	1000	0-20	AT1
MCC020080R60	2-8	1.3	2.1	60	0.5	2.5	1000	0-20	AT1
MCC020180R60	2-18	2.3	2.2	60	0.5	4	1000	0-20	AT1
MCC020180F60	2-18	2.5	1.9	60	0.5	4	100	0-20	AT1
MCC040080R60	4-8	1.1	1.6	60	0.5	1.5	1000	0-20	AT1
MCC040080F60	4-8	1.3	1.6	60	0.5	1.5	100	0-20	AT1
MCC040080A80	4-8	1.9	1.7	80	0.2	1.5	1000	0-20	AT1
MCC080120F60	8-12	1.9	1.7	60	0.5	1.5	100	0-20	AT1
MCC080120R60	8-12	1.9	1.7	60	0.5	1.5	1000	0-20	AT1
MCC080120A80	8-12	2.3	1.7	80	0.2	1.5	1000	0-20	AT1
MCC080180R60	8-18	2.2	2	60	0.5	2.5	1000	0-20	AT1
MCC120180R60	12-18	2.2	1.9	60	0.5	1.5	1000	0-20	AT1
MCC120180F60	12-18	2.2	1.9	60	0.5	1.5	100	0-20	AT1
MCC120180A80	12-18	2.3	1.7	80	0.2	1.5	1000	0-20	AT1

FEATURE:

- Whole Solid State,Mixture Integrated
- High Speed,Low Loss,High Precision
- Field Removable SMA(F) Connector
- Operating Temperature:-55~+85°C
- Wideband,High Reliability

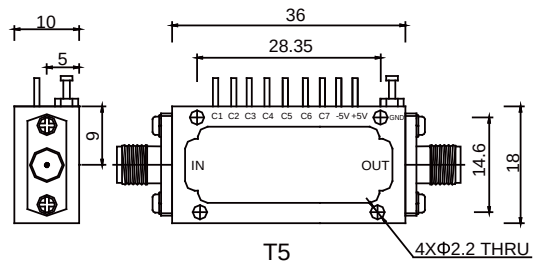
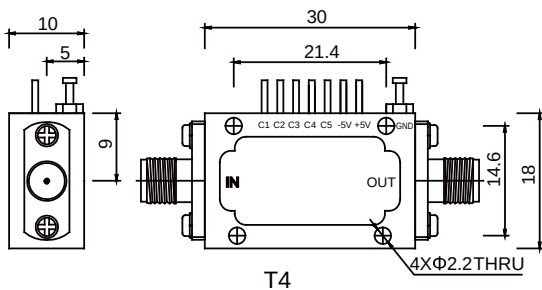
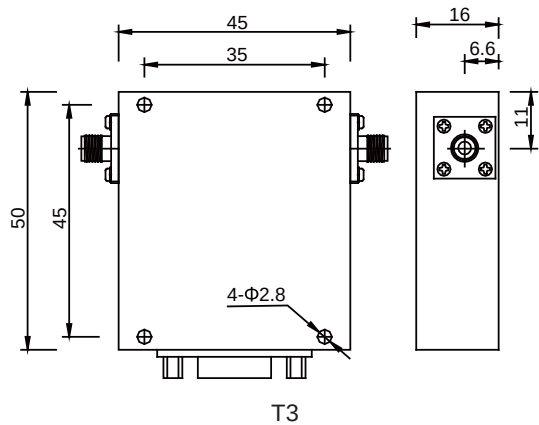
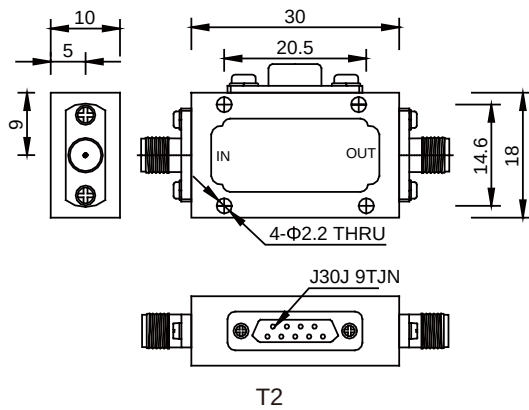
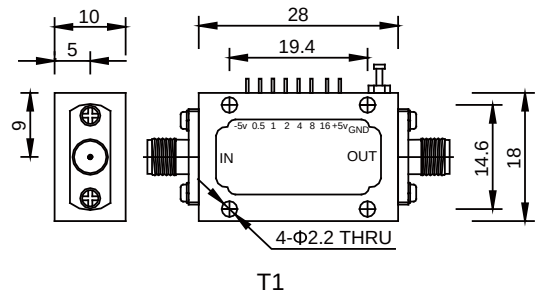
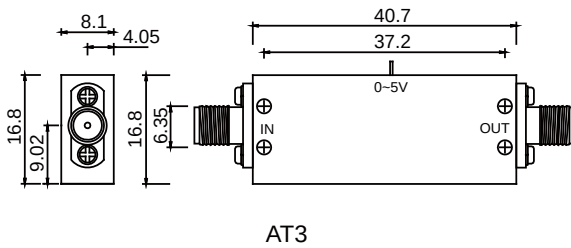
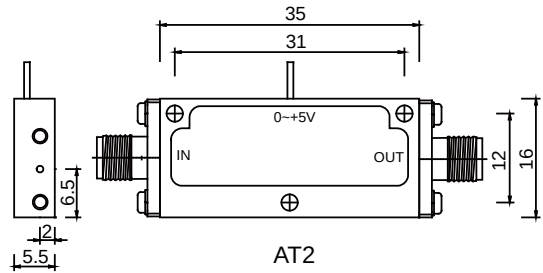
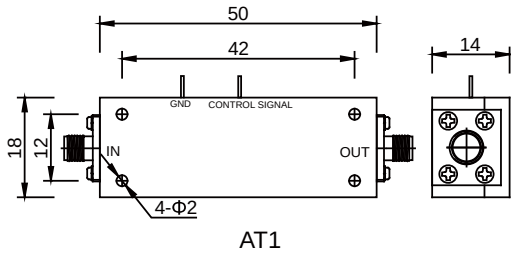


APPLICATION:

- Test Equipment
- Subsystems
- Prototypes

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB)	VSWR (Max)	Attenuate Range (dB.Max)	Input power (W.Max)	Flatness (±dB)	Speed (ns.Max)	Control (V@20 mA)	Case Type
MVC001005R60	0.1-0.5	0.5	1.5	0-60	0.5	2	1000	2-5	AT1
MVC005010R60	0.5-1	0.5	1.5	0-60	0.5	1.5	1000	0-5	AT1
MVC005010F60	0.5-1	0.5	1.5	0-60	0.5	1.5	100	0-5	AT1
MVC0050250R60	0.5-2	1	1.9	0-60	0.5	2.5	1000	0-5	AT1
MVC010020R60	1-2	0.7	1.5	0-60	0.5	1.5	1000	0-5	AT1
MVC010020F60	1-2	0.7	1.5	0-60	0.5	1.5	100	0-5	AT1
MVC010020A80	1-2	1.1	1.5	0-80	0.2	1	1000	0-5	AT1
MVC010180R60	1-18	2.5	2.5	0~60	0.5	4	1000	0-5	AT1
MVC020040R60	2-4	0.9	1.5	0-60	0.5	1.5	1000	0-5	AT1
MVC020040F60	2-4	1	1.5	0-60	0.5	1.5	100	0-5	AT1
MVC020040A80	2-4	1.7	1.5	0-80	0.2	1	1000	0-5	AT1
MVC020080R60	2-8	1.3	2.1	0-60	0.5	2.5	1000	0-5	AT1
MVC020180R60	2-18	3	2.2	0-60	0.5	5	1000	0-5	AT1
MVC020180F60	2-18	2.5	1.9	0-60	0.5	4	100	0-5	AT1
MVC040080R60	4-8	1.1	1.6	0-60	0.5	1.5	1000	0-5	AT1
MVC040080F60	4-8	1.3	1.6	0-60	0.5	1.5	100	0-5	AT1
MVC040080A80	4-8	1.9	1.7	0-80	0.2	1.5	1000	0-5	AT1
MVC080120R60	8-12	1.9	1.7	0-60	0.5	1.5	1000	0-5	AT2
MVC080120F60	8-12	1.9	1.7	0-60	0.5	1.5	100	0-5	AT2
MVC080120A80	8-12	2.3	1.7	0-80	0.2	1.5	1000	0-5	AT2
MVC080180R60	8-18	2.2	2	0-60	0.5	2.5	1000	0-5	AT2
MVC120180R60	12-18	2.2	1.9	0-60	0.5	1.5	1000	0-5	AT2
MVC120180A80	12-18	2.6	1.9	0-80	0.2	2	1000	0-5	AT2
MVC102180F60	12-18	2.2	1.9	0-60	0.5	1.5	100	0-5	AT2





PHASE LOCKED RESONATOR OSCILLATOR

FEATURE

- Wide Operating Temperature Range
- Temp: -40 to +80°C Standard
- Ultra Low Phase-Noise
- Small Size, Low Power Consumption
- Low Cost, Low Profile

APPLICATION

- Radar System
- Electronic warfare
- Communication system
- Test equipment



DESCRIPTION:

The Meuro series PDRO, Phase Locked Dielectric Resonator Oscillators, have been designed for use in Commercial and Military communication systems where demanding high performance, high reliability and cost are critical. The series PDRO take advantage of the small size, low phase-noise and high efficiency offered by fundamental GaAs MESFET and BJT DROs when they are phase-locked to an external crystal oscillator in the 50 MHz to 300 MHz range. Features such as ultra-low- phase noise, high power, small size and low cost make Meuro's PDRO product line the best value on the market today for your Commercial or Military applications.

SPECIFICATIONS:(@+25°C)

Parameter	External Reference
Typical Performance Specifications	
Output Frequency Range	3 GHz to 26.5 GHz
Output Power	+15 dBm (Type)
Power Variation	±2 dBm
Output Impedance	50Ω
Load VSWR	1.5:1
Supply Voltage*	+12 ---- +15 VDC
Current(Type)	280 mA
Spurious	-80 dBc
Harmonics	-20 dBc
Phase Noise	See Table
Alarm	TTL High in Lock
External Reference Frequency	50MHz to 300MHz
Input Power Level	0dBm ±3dBmm
Frequency Stability	Same as Reference
Connections	SMA(F)
RF Output Reference	SMA(F)
Input	N/A
Reference onitor	Feed thru
Alarm	Feed thru
Supply Voltage	Solder Lug
Ground	N/A
Operating Temperature	-40 to +80°C



PHASE LOCKED RESONATOR OSCILLATOR

Frequency Offset from Carrier (@Hz)	Phase Noise (dBc/Hz)@5 GHz	Phase Noise (dBc/Hz)@10 GHz	Phase Noise (dBc/Hz)@14 GHz	Phase Noise (dBc/Hz)@25.4GHz
Typical Phase Noise For External Reference				
100	-96	-90	-87	-75
1K	-119	-113	-110	-98
10K	-125	-120	-114	-104
100K	-128	-123	-119	-107
1M	-135	-128	-130	-118
10M	-145	-140	-140	-135

Note: Dual Loop consisting of PLDRO driven by PLXO with 5 or 10 MHz external reference is available and case type: 2.25x2.25x133.

HOW TO ORDER

Specify Part Number

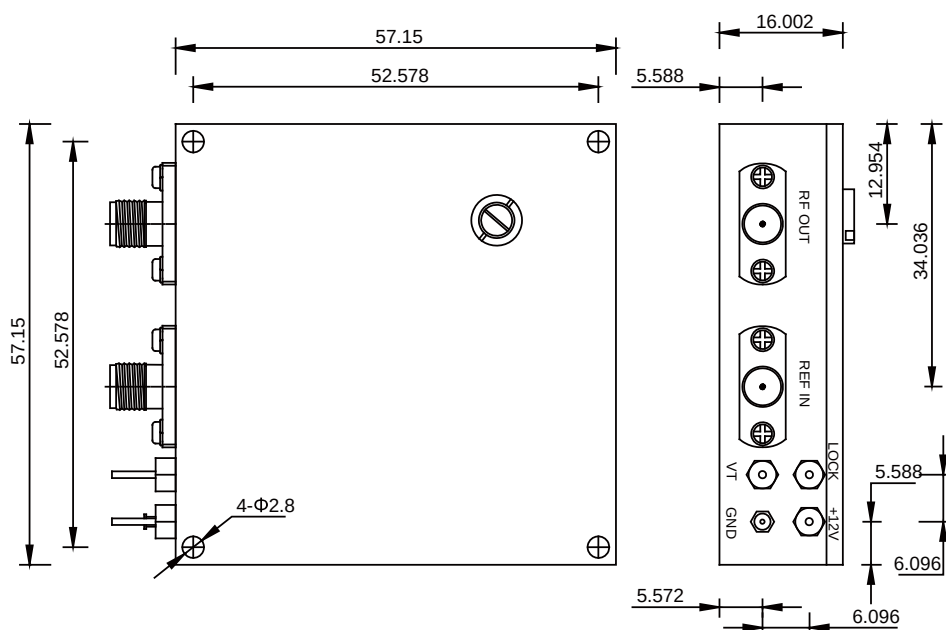
PLDRO - FF - PP - HF - E

Center Frequency (MHz) External reference (MHz)

Output Power (dBm)

Example: To order a 12GHz PLDRO with output power of 15dBm, external reference of 100MHz
specify PLDRO-12000-15-100E

OUTLINE (inch)





PHASE LOCKED RESONATOR OSCILLATOR

FEATURE

- Wide Operating Temperature Range
- Temp: -40 to +80°C Standard
- Ultra Low Phase-Noise
- Small Size, Low Power Consumption
- Low Cost, Low Profile

APPLICATION

- Radar System
- Electronic warfare
- Communication system
- Test equipment



DESCRIPTION

The Meuro series PDRO, Phase Locked Dielectric Resonator Oscillators, have been designed for use in Commercial and Military communication systems where demanding high performance, high reliability and cost are critical. The series PDRO take advantage of the small size, low phase-noise and high efficiency offered by fundamental GaAs MESFET and BJT DROs when they are phase-locked to an external crystal oscillator in the 50 MHz to 300 MHz range. Features such as ultra-low- phase noise, high power, small size and low cost make Meuro's PDRO product line the best value on the market today for your Commercial or Military applications.

SPECIFICATIONS:(@+25°C)

Parameter	Internal Reference
Typical Performance Specifications	
Output Frequency Range	3 GHz to 26.5 GHz
Output Power	+15 dBm (Type)
Power Variation	±2 dBm
Output Impedance	50Ω
Load VSWR	1.5:1
Supply Voltage*	+12 ---- +15 VDC
Current(Type)	350 mA Steady State,800 mA Surge
Spurious	-80 dBc
Harmonics	-20 dBc
Phase Noise	See Table
Alarm	TTL High in Lock
External Reference Frequency	N/A
Input Power Level	N/A
Frequency Stability	±2.5 ppm
Connections	SMA(F)
RF Output Reference	SMA(F)
Input	SMA(F)
Reference onitor	Feed thru
Alarm	Feed thru
Supply Voltage	Solder Lug
Ground	N/A
Operating Temperature	-40 to +80°C



PHASE LOCKED RESONATOR OSCILLATOR

Frequency Offset from Carrier (@Hz)	Phase Noise (dBc/Hz)@5 GHz	Phase Noise (dBc/Hz)@10 GHz	Phase Noise (dBc/Hz)@14 GHz	Phase Noise (dBc/Hz)@22 GHz
Typical Phase Noise For Internal Reference Units				
100	-80	-75	-72	-75
1K	-105	-100	-97	-97
10K	-120	-110	-107	-107
100K	-123	-115	-110	-109
1M	-135	-128	-125	-120
10M	-145	-140	-140	-140

HOW TO ORDER

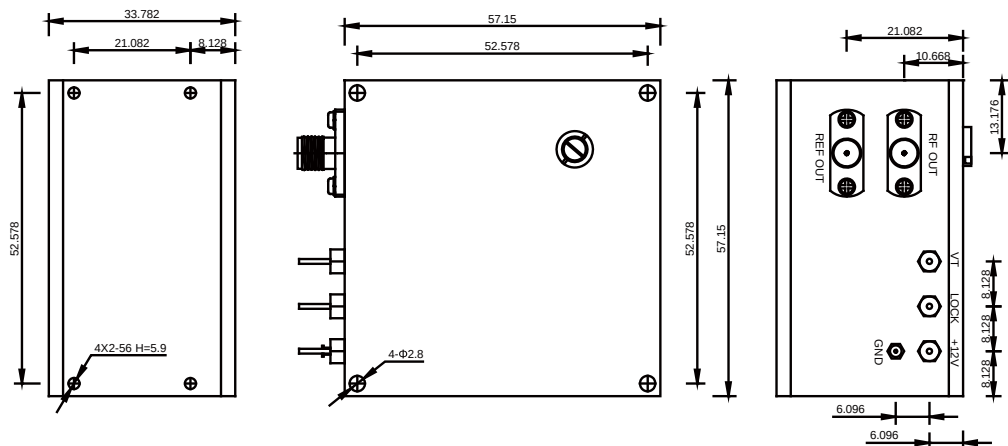
Specify Part Number

PLDRO - FF - PP - I

Center Frequency (MHz) Output Power (dBm)

Example: To order a 12GHz interference PLDRO with output power of 15dBm, specify PLDRO-12000-15I

OUTLINE (inch)



FEATURE

- Wide Operating Temperature Range
- Temp: -40 to +80°C Standard
- Internal voltage regulated
- Excellent frequency stability
- Low Phase-Noise
- Low cost and reliable construction

APPLICATION

- Frequency reference
- Local oscillators
- Communication systems
- Radar systems

**DESCRIPTION:**

The Meuro series DRO cover the frequency range of 2 to 15 GHz. The oscillators utilize state of the art MIC and FET devices technology to provide highly stable, reliable and clean signal sources. Each oscillator has an internal voltage regulator to provide regulated bias and over-voltage protection. An internal isolator may be integrated in to improve the anti-load pulling ability. Standard products incorporate a screw tuner with a reliable self-locking feature to provide small mechanical frequency tuning. SMA female coaxial connector is equipped for standard RF interface.

SPECIFICATIONS:(@+25

Parameter	2-5GHz	5-8GHz	8-10GHz	10-12GHz	12-15GHz
Typical Performance Specifications					
Output Power	10-20dBm	10-20dBm	10-20dBm	10-20dBm	10-20dBm
Mechanical Tuning(Type)	±25MHz	±50MHz	±80MHz	±80MHz	±80MHz
Frequency Stability	±3ppm/°C	±3 ppm/°C	±3 ppm/	±3 ppm/°C	±3 ppm/°C
Power Vibratio(max)	±2dBm	±2dBm	±2dBm°C	±2dBm	±2dBm
Phase Noise@10KHz offset	-95dBc/Hz	-90dBc/Hz	-90dBc/Hz	-85dBc/	-85dBc/Hz
Phase Noise@100KHz offset	-120dBc/Hz	-115dBc/Hz	-115dBc/Hz	-110dBc/HzHz	-110dBc/Hz
Harmonics(max)	-20 dBc	-20 dBc	-20 dBc	-20 dB	-20 dBc
Spurious(max)	-70 dBc	-70 dBc	-70 dBc	-70 dBcc	-70 dBc
Bias Voltage	+12VDC	+12VDC	+12VDC	+12VDC	+12VDC
Bias Current	180-280 mA	60-120 mA	60-120 mA	60-120 mA	60-150 mA
RF Connections	SMA-F	SMA-F	SMA-F	SMA-F	SMA-F
Operating Temperature	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
Outline	RD1A	RD2A/RD2B	RD3A/RD3B	RD4A/RD4B	RD5A/RD5B

Note: Higher Output Frequency to 30 GHz is available (multiplied)



FREE UN OSCILLATOR(FRDRO)

HOW TO ORDER

Specify Part Number

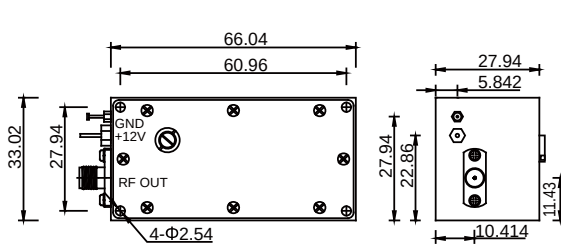
FRDRO - FF - PP- BW

Center Frequency (MHz) ———— 1/2 Mechanical Tunning(MHz)

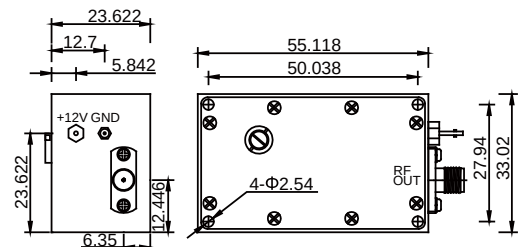
Output Power (dBm) ————

Example: To order a 12GHz FRDRO output power 15dBm with 100MHz mechanical tuning frequency, specify FRDRO-12000-15-50

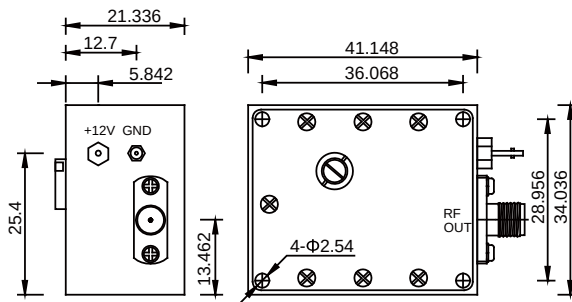
OUTLINE (inch)



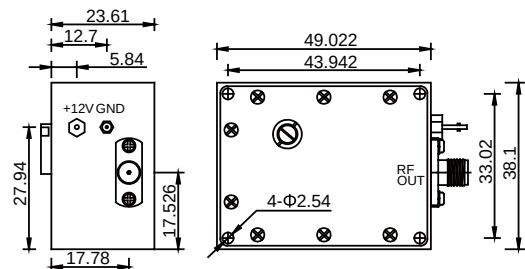
RD1A (10&20dBm)



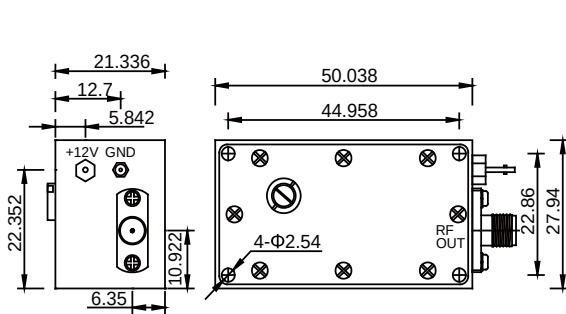
RD2B (20dBm)



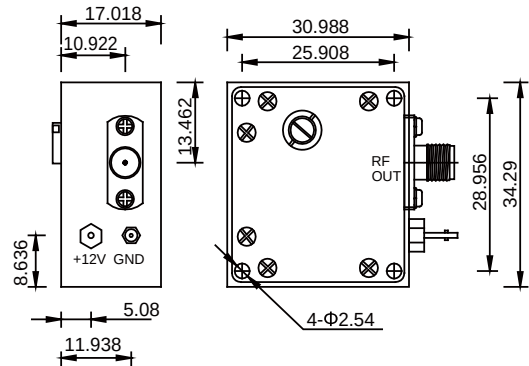
RD3A (10dBm)



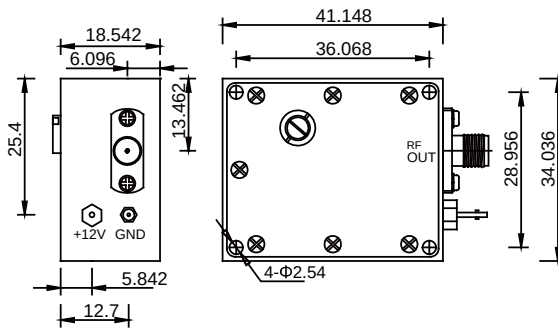
RD2A (10dBm)



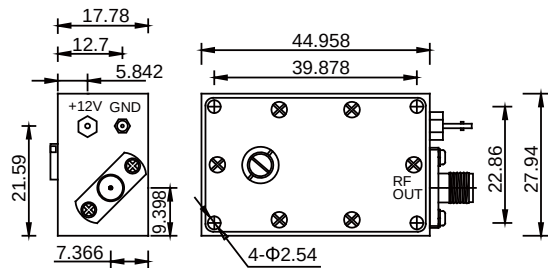
RD3B (20dBm)



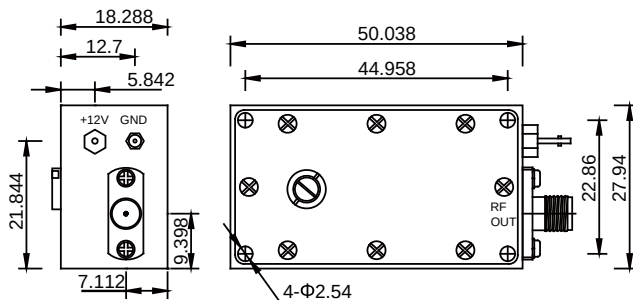
RD5A (10dBm)



RD4A (10dBm)



RD5B (20dBm)



RD4B (20dBm)

Meuro reserve the right to change the specifications without notice

FEATURE:

- Small Structure, Low Cost, Drop-IN Type
- Wideband Frequency Range, High Reliability
- Field Removable SMA(F) Available
- Low Conversion Loss
- Low LO Drive Power



APPLICATION:

- Test equipment
- Radar & Electronic Warfare
- Communication system

SPECIFICATIONS@25°C:

Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Frequency (GHz)	Conversion Loss (dB)	Isolation (dB) L-R	Isolation (dB) L-I	LO Power (dBm)	Single Sideband Noise (dB)	Input P1dB (dBm)	Input IP3 (dBm)	Case Type
MMB001025F0010	0.01-2.5	0.01-2.5	DC-1	9	25	20	13	9	0	15	MB1
MMB001030F0105	0.01-3	0.01-3	0.01-0.5	8	25	25	7-13	8	5	19	MB1
MMB005020F0030	0.5-2	0.5-2	DC-3	6	30	30	7-13	6	5	19	MB1
MMB008190F0010	0.8-19	1-19	DC-1	12	18	20	1-19	11	8	17	MB1
MMB005050F0020	0.05-5	0.05-5	DC-2	5.5	30	20	7-13	6	5	13	MB3
MMB005180F0005	0.5-18	0.5-18	DC-0.5	8	30	25	7-13	8	3	13	MB1
MMB005180F0050	0.5-18	0.5-18	DC-5	8	30	25	7-13	8	3	13	MB1
MMB010060F0010	1-6	1-6	DC-1	7	30	25	7-13	7	5	13	MB1
MMB010180F0040	1-18	1-18	DC-4	8	30	30	7-13	9	6	19	MB1
MMB020030F0010	2-3	1.2-2.5	DC-1	9	22	30	7-13	6	7	19	MB1
MMB020040F0030	2-4	2-4	DC-3	6	30	30	7-13	6	5	19	MB1
MMB025027F0070	2.5-2.75	2.5-2.75	DC-7	6.3-8	30	18	10	8	1	11	MB1
MMB020100F0030	2-10	2-10	DC-3	6	30	30	7-13	6	5	19	MB1
MMB020100F0010	2-10	2-10	DC-1	7	30	25	7-13	7	5	13	MB1
MMB020120F0030	2-12	2-12	DC-3	6	30	30	7-13	6	5	19	MB1
MMB020160F0010	2-16	2-16	DC-1	7	30	25	7-13	7	3	13	MB1
MMB020180F0020	2-18	2-18	DC-2	7	30	30	7-13	7	5	19	MB1
MMB020180F0340	2-18	2-18	0.3-4	8	30	30	7-13	8	6	19	MB1
MMB020180F0320	2-18	2-18	0.3-2	8	30	30	7-13	8	5	19	MB1
MMB020180F1060	2-18	2-18	1-6	8	30	30	7-13	8	5	19	MB1
MMB020180F0060	2-18	2-18	DC-6	7.5	30	30	7-13	8	5	19	MB1
MMB020180F0040	2-18	2-18	DC-4	8	30	25	7-13	8	3	13	MB1
MMB020200F1060	2-20	2-20	1-6	8	30	30	7-13	8	5	15	MB1
MMB030044F5367	3-4.4	9.7	5.3-6.7	7	30	30	13	9	6	19	MB1
MMB040080F0030	4-8	4-8	DC-3	6	30	30	7-13	6	5	19	MB1
MMB040180F0030	4-18	4-18	DC-3	6	30	30	7-13	6	3	10	MB1
MMB040180F0070	4-18	4-18	DC-7	6	30	30	7-13	6	3	10	MB1



DOUBLE&TRIPLE BALANCED MIXER

Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Frequency (GHz)	Conversion Loss (dB)	Isolation (dB) L-R	Isolation (dB) L-I	LO Power (dBm)	Single Sideband Noise(dB)	Input P1dB (dBm)	Input IP3 (dBm)	Case Type
MMB057071F3448	5.722-7.1	5.722-7.1	3.4-4.8	7	30	30	7-13	9	6	19	MB1
MMB060180F0005	6-18	6-18	DC-1	10	25	20	7	10	0	15	MB1
MMB070400F0012	7-40	7-40	DC-12	10	30	30	7-13	10	10	20	MB2
MMB070400F0512	7-40	7-40	0.5-12	10	30	30	7-13	10	10	20	MB2
MMB070430F0012	7-43	7-43	DC-12	10	30	25	7-13	10	10	13	MB2
MMB079085F2030	7.8-8.5	5-6	2-3	9	25	20	13	9	7	19	MB1
MMB080120F0010	8-12	8-12	DC-1	6	30	30	7-13	6	5	19	MB1
MMB080120F0030	8-12	8-12	DC-3	6	30	30	7-13	6	5	19	MB1
MMB080180F0015	8-18	8-18	DC-1.5	6	40	40	7-13	6	3	13	MB1
MMB120200F0030	12-20	12-20	DC-3	6	30	30	7-13	6	5	19	MB1
MMB127145F1012	12.75-14.5	12.75-14.5	10.7-12.7	7	30	30	7-13	9	6	19	MB1
MMB180400F0012	18-40	18-40	DC-12	10	30	25	7-13	10	10	13	MB2

Note1: Other frequency band, specifications and Drop-in Case type are also available.

FEATURES

- IF Can Cover DC-3.5 GHz
- High Image Rejection and Isolation
- Excellent Amplitude&Phase Balance
- SMA(F) Connector,Drop-IN Type
- Low Lo Drive Power
- Low Conversion Loss

APPLICATIONS

- Test Equipment
- Radar &Electronic Warfare
- Communication systems



SPECIFICATIONS@25°C:

Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Frequency (MHz)	LO Power (dBm)	Conversion Loss (dB)	Image rejection (dBc)	Isolation (dB) L-R	Isolation (dB) L-I	Input P1dB (dBm)	Input IP3 (dBm)	Amplitude balance (dB)	Phase balance (deg)	Case Type
MMB0501Q10L	0.5-1	0.5-1	DC-1000	10	7.5	35	45	20	14	24	0.2	5	MB5
MMB0501Q10M	0.5-1	0.5-1	DC-1000	13	7.5	35	45	20	14	24	0.2	5	MB5
MMB0501Q10H	0.5-1	0.5-1	DC-1000	17	7.5	35	45	20	14	24	0.2	5	MB5
MMB0102Q10L	1-2	1-2	DC-1000	10	7.5	35	50	20	14	24	0.3	6	MB6
MMB0102Q10M	1-2	1-2	DC-1000	13	7.5	35	50	20	14	24	0.3	6	MB6
MMB0102Q10H	1-2	1-2	DC-1000	17	7.5	35	50	20	14	24	0.3	6	MB6
MMB0204Q35L	2-4	2-4	DC-3500	10	7.5	35	50	20	14	24	0.4	5	MB7
MMB0204Q10M	2-4	2-4	DC-1000	17	7.5	35	45	20	14	24	0.2	4	MB7
MMB0204Q35H	2-4	2-4	DC-3500	17	7.5	35	50	20	14	24	0.4	5	MB7
MMB0408Q35L	4-8	4-8	DC-3500	10	7.5	35	45	20	14	24	0.3	4	MB5
MMB0408Q35M	4-8	4-8	DC-3500	13	7.5	35	45	20	14	24	0.3	4	MB5
MMB0408Q35H	4-8	4-8	DC-3500	17	7.5	35	45	20	14	24	0.3	4	MB5
MMB0409Q35L	4-9	4-9	DC-3500	10	8	35	45	20	14	23	0.3	8	MB5
MMB0409Q35M	4-9	4-9	DC-3500	13	8	35	45	20	14	23	0.3	8	MB5
MMB0409Q35H	4-9	4-9	DC-3500	17	8	35	45	20	14	23	0.3	8	MB5
MMB0507Q35L	5-7	5-7	DC-3500	10	7.5	40	50	20	15	23	0.2	4	MB5
MMB0507Q35M	5-7	5-7	DC-3500	13	7.5	40	50	20	15	23	0.2	4	MB5
MMB0507Q35H	5-7	5-7	DC-3500	17	7.5	40	50	20	15	23	0.2	4	MB5
MMB0510Q35L	5-10	5-10	DC-3500	10	7.5	35	45	20	15	24	0.3	4	MB5
MMB0510Q35M	5-10	5-10	DC-3500	13	7.5	35	45	20	15	24	0.3	4	MB5
MMB0510Q35H	5-10	5-10	DC-3500	17	7.5	35	45	20	15	24	0.3	4	MB5
MMB0610Q35L	6-10	6-10	DC-3500	10	7.5	30	45	20	12	22	0.3	4	MB5
MMB0610Q35M	6-10	6-10	DC-3500	13	7.5	30	45	20	12	22	0.3	4	MB5
MMB0610Q35H	6-10	6-10	DC-3500	17	7.5	30	45	20	12	22	0.3	4	MB5
MMB0708Q35L	7-8	7-8	DC-3500	10	7.5	40	50	22	12	23	0.2	4	MB5
MMB0708Q35M	7-8	7-8	DC-3500	13	7.5	40	50	22	12	23	0.2	4	MB5
MMB0708Q35H	7-8	7-8	DC-3500	17	7.5	40	50	22	12	23	0.2	4	MB5

Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Frequency (MHz)	LO Power (dBm)	Conversion Loss (dB)	Image rejection (dBc)	Isolation (dB) L-R	Isolation (dB) L-I	Input P1dB (dBm)	Input IP3 (dBm)	Amplitude balance (dB)	Phase balance (deg)	Case Type
MMB0812Q35LD	8-12	8-12	DC-3500	10	7.5	30	45	20	17	24	0.3	5	MB5
MMB0812Q35L	8-12	8-12	DC-3500	10	7.5	30	45	20	17	24	0.3	5	MB5
MMB0812Q35M	8-12	8-12	DC-3500	13	7.5	30	45	20	17	24	0.3	5	MB5
MMB0812Q35H	8-12	8-12	DC-3500	17	7.5	30	45	20	17	24	0.3	5	MB5
MMB0813Q20L	8-13	8-13	DC-2000	10	8	30	45	20	14	24	0.3	4	MB5
MMB0813Q20M	8-13	8-13	DC-2000	13	8	30	45	20	14	24	0.3	4	MB5
MMB0813Q20H	8-13	8-13	DC-2000	17	8	30	45	20	14	24	0.3	4	MB5
MMB0813Q35L	8-13	8-13	DC-3500	10	8	30	45	20	14	24	0.3	4	MB5
MMB0813Q35M	8-13	8-13	DC-3500	13	8	30	45	20	14	24	0.3	4	MB5
MMB0813Q35H	8-13	8-13	DC-3500	17	8	30	45	20	14	24	0.3	4	MB5
MMB0816Q35 L	8-16	8-16	DC-3500	10	7.5	30	45	20	18	24	0.4	4	MB5
MMB0816Q35M	8-16	8-16	DC-3500	13	7.5	30	45	20	18	24	0.4	4	MB5
MMB0816Q35H	8-16	8-16	DC-3500	17	7.5	30	45	20	18	24	0.4	4	MB5
MMB1012Q35L	10-12	10-12	DC-3500	10	7.5	34	45	24	21	28	0.4	6	MB5
MMB1012Q35M	10-12	10-12	DC-3500	13	7.5	34	45	24	21	28	0.4	6	MB5
MMB1012Q35H	10-12	10-12	DC-3500	17	7.5	34	45	24	21	28	0.4	6	MB5
MMB1116Q35L	11-16	11-16	DC-3500	10	9	25	45	22	21	25	0.5	8	MB5
MMB1116Q35M	11-16	11-16	DC-3500	13	9	25	45	22	21	25	0.5	8	MB5
MMB1116Q35H	11-16	11-16	DC-3500	17	9	25	45	22	21	25	0.5	8	MB5
MMB1215Q35L	12-15	12-15	DC-3500	10	8	35	45	22	21	27	0.4	5	MB5
MMB1215Q35M	12-15	12-15	DC-3500	13	8	35	45	22	21	27	0.4	5	MB5
MMB1215Q35H	12-15	12-15	DC-3500	17	8	35	45	22	21	27	0.4	5	MB5
MMB1216Q35L	12-16	12-16	DC-3500	10	8	30	45	25	16	24	0.3	4	MB5
MMB1216Q35M	12-16	12-16	DC-3500	13	8	30	45	25	16	24	0.3	4	MB5
MMB1216Q35H	12-16	12-16	DC-3500	17	8	30	45	25	16	24	0.3	4	MB5
MMB1218Q35L	12-18	12-18	DC-3500	10	8	30	45	25	16	24	0.4	5	MB5
MMB1218Q35M	12-18	12-18	DC-3500	13	8	30	45	25	16	24	0.4	5	MB5
MMB1218Q35H	12-18	12-18	DC-3500	17	8	30	45	25	16	24	0.4	5	MB5
MMB1521Q35L	15-21	15-21	DC-3500	10	8	25	47	22	15	25	0.3	4	MB5
MMB1521Q35M	15-21	15-21	DC-3500	13	8	25	47	22	15	25	0.3	4	MB5
MMB1521Q35H	15-21	15-21	DC-3500	17	8	25	47	22	15	25	0.3	4	MB5
MMB1523Q35L	15-23	15-23	DC-3500	10	10	25	45	22	15	20	0.3	4	MB5
MMB1523Q35M	15-23	15-23	DC-3500	13	10	25	45	22	15	25	0.3	4	MB5
MMB1523Q35H	15-23	15-23	DC-3500	17	10	25	45	22	15	25	0.3	4	MB5
MMB1626Q35L	16-26	16-26	DC-3500	10	10	20	40	25	16	20	0.5	5	MB5
MMB1626Q35M	16-26	16-26	DC-3500	13	10	20	40	25	16	20	0.5	5	MB5
MMB1626Q35H	16-26	16-26	DC-3500	17	10	20	40	25	16	20	0.5	5	MB5

Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Frequency (MHz)	LO Power (dBm)	Conversion Loss (dB)	Image rejection (dBc)	Isolation (dB) L-R	Isolation (dB) L-I	Input P1dB (dBm)	Input IP3 (dBm)	Amplitude balance (dB)	Phase balance (deg)	Case Type
MMB2123Q35L	21-23	21-23	DC-3500	10	10	25	45	22	18	20	0.3	4	MB5
MMB2123Q35M	21-23	21-23	DC-3500	13	10	25	45	22	18	20	0.3	4	MB5
MMB2123Q35H	21-23	21-23	DC-3500	17	10	25	45	22	18	20	0.3	4	MB5
MMB2223Q35L	22-23	22-23	DC-3500	10	10	20	40	30	16	20	0.5	5	MB5
MMB2223Q35M	22-23	22-23	DC-3500	13	10	20	40	30	16	20	0.5	5	MB5
MMB2223Q35H	22-23	22-23	DC-3500	17	10	20	40	30	16	20	0.5	5	MB5
MMB2530Q35H	25-30	25-30	DC-3500	17	10	20	40	30	16	25	0.6	4	MB5

Note 1: this products do not integrate IF hybrid.

FEATURES

- Image Frequency Interference Resistant
- Frequency:0.5~18GHZ
- Image Suppression:25dBc(type)
- Field Removable SMA(F)Connectoe,Drop-IN Type
- Low Lo Drive Power
- Low Conversion Loss



APPLICATIONS

- Test Equipment
- Radar &Electronic Warfare
- Communication systems

SPECIFICATIONS@25°C:

Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Frequency (MHz)	LO Power (dBm)	Conversion Loss (dB)	Image rejection (dBc)	Isolation (dB) L-R	Isolation (dB) L-I	Input P1dB (dBm)	Input IP3 (dBm)	Single Sideband Noise(dB)	Case Type
MMB0102R0204LD	1-2	1-2	20-40	10	6.5	20	20	20	6	15	6.5	MB6
MMB0102R0204MD	1-2	1-2	20-40	13	6.5	20	20	20	6	15	6.5	MB6
MMB0102R0204HD	1-2	1-2	20-40	17	6.5	20	20	20	6	15	6.5	MB6
MMB0102R0408LD	1-2	1-2	40-80	10	6.5	20	20	20	6	15	6.5	MB6
MMB0102R0408MD	1-2	1-2	40-80	13	6.5	20	20	20	6	15	6.5	MB6
MMB0102R0408HD	1-2	1-2	40-80	17	6.5	20	20	20	6	15	6.5	MB6
MMB0102R1020LD	1-2	1-2	100-200	10	6.5	20	20	20	6	15	6.5	MB6
MMB0102R1020MD	1-2	1-2	100-200	13	6.5	20	20	20	6	15	6.5	MB6
MMB0102R1020HD	1-2	1-2	100-200	17	6.5	20	20	20	6	15	6.5	MB6
MMB0104R0204LD	1-4	1-4	20-40	10	8.5	20	20	20	6	15	8.5	MB6
MMB0104R0204MD	1-4	1-4	20-40	13	8.5	20	20	20	6	15	8.5	MB6
MMB0104R0204HD	1-4	1-4	20-40	17	8.5	20	20	20	6	15	8.5	MB6
MMB0104R0408LD	1-4	1-4	40-80	10	8.5	20	20	20	6	15	8.5	MB6
MMB0104R0408MD	1-4	1-4	40-80	13	8.5	20	20	20	6	15	8.5	MB6
MMB0104R0408HD	1-4	1-4	40-80	17	8.5	20	20	20	6	15	8.5	MB6
MMB0104R1020LD	1-4	1-4	100-200	10	8.5	20	20	20	6	15	8.5	MB6
MMB0104R1020MD	1-4	1-4	100-200	13	8.5	20	20	20	6	15	8.5	MB6
MMB0104R1020HD	1-4	1-4	100-200	17	8.5	20	20	20	6	15	8.5	MB6
MMB0204R0204LD	2-4	2-4	20-40	10	6	25	30	25	6	15	6	MB7
MMB0204R0204MD	2-4	2-4	20-40	13	6	25	30	25	6	15	6	MB7
MMB0204R0204HD	2-4	2-4	20-40	17	6	25	30	25	6	15	6	MB7
MMB0204R0408LD	2-4	2-4	40-80	10	6	25	30	25	6	15	6	MB7
MMB0204R0408MD	2-4	2-4	40-80	13	6	25	30	25	6	15	6	MB7
MMB0204R0408HD	2-4	2-4	40-80	17	6	25	30	25	6	15	6	MB7
MMB0204R1020LD	2-4	2-4	100-200	10	6	25	30	25	6	15	6	MB7
MMB0204R1020MD	2-4	2-4	100-200	13	6	25	30	25	6	15	6	MB7
MMB0204R1020HD	2-4	2-4	100-200	17	6	25	30	25	6	15	6	MB7



IMAGE REJECTION MIXER

Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Frequency (MHz)	LO Power (dBm)	Conversion Loss (dB)	Image rejection (dBc)	Isolation (dB) L-R	Isolation (dB) L-I	Input P1dB (dBm)	Input IP3 (dBm)	Single Sideband Noise(dB)	Case Type
MMB3129R0204MD	2.9-3.1	2.9-3.1	20-40	13	6	25	30	25	6	15	6	MB5
MMB0408R0204LD	4-8	4-8	20-40	10	7	25	35	30	6	15	7	MB5
MMB0408R0204MD	4-8	4-8	20-40	13	7	25	35	30	6	15	7	MB5
MMB0408R0204HD	4-8	4-8	20-40	17	7	25	35	30	6	15	7	MB5
MMB0408R0408LD	4-8	4-8	40-80	10	7	25	35	30	6	15	7	MB5
MMB0408R0408MD	4-8	4-8	40-80	13	7	25	35	30	6	15	7	MB5
MMB0408R0408HD	4-8	4-8	40-80	17	7	25	35	30	6	15	7	MB5
MMB0408R1020LD	4-8	4-8	100-200	10	7	25	35	30	6	15	7	MB5
MMB0408R1020MD	4-8	4-8	100-200	13	7	25	35	30	6	15	7	MB5
MMB0408R1020HD	4-8	4-8	100-200	17	7	25	35	30	6	15	7	MB5
MMB0410R0204LD	4-10	4-10	20-40	10	7.5	23	25	25	6	15	7.5	MB5
MMB0410R0204MD	4-10	4-10	20-40	13	7.5	23	25	25	6	15	7.5	MB5
MMB0410R0204HD	4-10	4-10	20-40	17	7.5	23	25	25	6	15	7.5	MB5
MMB0410R0408LD	4-10	4-10	40-80	10	7.5	23	25	25	6	15	7.5	MB5
MMB0410R0408MD	4-10	4-10	40-80	13	7.5	23	25	25	6	15	7.5	MB5
MMB0410R0408HD	4-10	4-10	40-80	17	7.5	23	25	25	6	15	7.5	MB5
MMB0410R1020LD	4-10	4-10	100-200	10	7.5	23	25	25	6	15	7.5	MB5
MMB0410R1020MD	4-10	4-10	100-200	13	7.5	23	25	25	6	15	7.5	MB5
MMB0410R1020HD	4-10	4-10	100-200	17	7.5	23	25	25	6	15	7.5	MB5
MMB5459R0204LD	5.4-5.9	5.4-5.9	20-40	10	9	20	25	22	10	15	9	MB5
MMB5459R0204MD	5.4-5.9	5.4-5.9	20-40	13	9	20	25	22	10	15	9	MB5
MMB5459R0204HD	5.4-5.9	5.4-5.9	20-40	17	9	20	25	22	10	15	9	MB5
MMB5459R0408LD	5.4-5.9	5.4-5.9	40-80	10	9	20	25	22	10	15	9	MB5
MMB5459R0408MD	5.4-5.9	5.4-5.9	40-80	13	9	20	25	22	10	15	9	MB5
MMB5459R0408HD	5.4-5.9	5.4-5.9	40-80	17	9	20	25	22	10	15	9	MB5
MMB5459R1020LD	5.4-5.9	5.4-5.9	100-200	10	9	20	25	22	10	15	9	MB5
MMB5459R1020MD	5.4-5.9	5.4-5.9	100-200	13	9	20	25	22	10	15	9	MB5
MMB5459R1020HD	5.4-5.9	5.4-5.9	100-200	17	9	20	25	22	10	15	9	MB5
MMB0612R0204LD	6-12	6-12	20-40	10	7	20	30	30	6	15	7	MB5
MMB0612R0204MD	6-12	6-12	20-40	13	7	20	30	30	6	15	7	MB5
MMB0612R0204HD	6-12	6-12	20-40	17	7	20	30	30	6	15	7	MB5
MMB0618R0204LD	6-18	6-18	20-40	10	8	25	35	30	6	15	8	MB5
MMB0618R0204MD	6-18	6-18	20-40	13	8	25	35	30	6	15	8	MB5
MMB0618R0204HD	6-18	6-18	20-40	17	8	25	35	30	6	15	8	MB5
MMB0618R0408LD	6-18	6-18	40-80	10	8	25	35	30	6	15	8	MB5
MMB0618R0408MD	6-18	6-18	40-80	13	8	25	35	30	6	15	8	MB5
MMB0618R0408HD	6-18	6-18	40-80	17	8	25	35	30	6	15	8	MB5



IMAGE REJECTION MIXER

Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Frequency (MHz)	LO Power (dBm)	Conversion Loss (dB)	Image rejection (dBc)	Isolation (dB) L-R	Isolation (dB) L-I	Input P1dB (dBm)	Input IP3 (dBm)	Single Sideband Noise(dB)	Case Type
MMB0618R1020LD	6-18	6-18	100-200	10	8	25	35	30	6	15	8	MB5
MMB0618R1020MD	6-18	6-18	100-200	13	8	25	35	30	6	15	8	MB5
MMB0618R1020HD	6-18	6-18	100-200	17	8	25	35	30	6	15	8	MB5
MMB0812R0204LD	8-12	8-12	20-40	10	7	25	40	35	6	15	7	MB5
MMB0812R0204MD	8-12	8-12	20-40	13	7	25	40	35	6	15	7	MB5
MMB0812R0204HD	8-12	8-12	20-40	17	7	25	40	35	6	15	7	MB5
MMB0812R0408LD	8-12	8-12	40-80	10	7	25	40	35	6	15	7	MB5
MMB0812R0408MD	8-12	8-12	40-80	13	7	25	40	35	6	15	7	MB5
MMB0812R0408HD	8-12	8-12	40-80	17	7	25	40	35	6	15	7	MB5
MMB0812R1020LD	8-12	8-12	100-200	10	7	25	40	35	6	15	7	MB5
MMB0812R1020MD	8-12	8-12	100-200	13	7	25	40	35	6	15	7	MB5
MMB0812R1020HD	8-12	8-12	100-200	17	7	25	40	35	6	15	7	MB5
MMB0816R0204LD	8-16	8-16	20-40	10	8	20	20	20	6	15	8	MB5
MMB0816R0204MD	8-16	8-16	20-40	13	8	20	20	20	6	15	8	MB5
MMB0816R0204HD	8-16	8-16	20-40	17	8	20	20	20	6	15	8	MB5
MMB0816R0408LD	8-16	8-16	40-80	10	8	20	20	20	6	15	8	MB5
MMB0816R0408MD	8-16	8-16	40-80	13	8	20	20	20	6	15	8	MB5
MMB0816R0408HD	8-16	8-16	40-80	17	8	20	20	20	6	15	8	MB5
MMB0816R1020MD	8-16	8-16	100-200	13	8	20	20	20	6	15	8	MB5
MMB0816R1020LD	8-16	8-16	100-200	10	8	20	20	20	6	15	8	MB5
MMB0816R1020HD	8-16	8-16	100-200	17	8	20	20	20	6	15	8	MB5
MMB0818R0204LD	8-18	8-18	20-40	10	7.5	20	25	25	6	15	7.5	MB5
MMB0818R0204MD	8-18	8-18	20-40	13	7.5	20	25	25	6	15	7.5	MB5
MMB0818R0204HD	8-18	8-18	20-40	17	7.5	20	25	25	6	15	7.5	MB5
MMB0818R0408LD	8-18	8-18	40-80	10	7.5	20	25	25	6	15	7.5	MB5
MMB0818R0408MD	8-18	8-18	40-80	13	7.5	20	25	25	6	15	7.5	MB5
MMB0818R0408HD	8-18	8-18	40-80	17	7.5	20	25	25	6	15	7.5	MB5
MMB0818R1020LD	8-18	8-18	100-200	10	7.5	20	25	25	6	15	7.5	MB5
MMB0818R1020MD	8-18	8-18	100-200	13	7.5	20	25	25	6	15	7.5	MB5
MMB0818R1020HD	8-18	8-18	100-200	17	7.5	20	25	25	6	15	7.5	MB5
MMB8596R0204LD	8.5-9.6	8.5-9.6	20-40	10	9	20	25	22	10	15	9	MB5
MMB8596R0204MD	8.5-9.6	8.5-9.6	20-40	13	9	20	25	22	10	15	9	MB5
MMB8596R0204HD	8.5-9.6	8.5-9.6	20-40	17	9	20	25	22	10	15	9	MB5
MMB8596R0408LD	8.5-9.6	8.5-9.6	40-80	10	9	20	25	22	10	15	9	MB5
MMB8596R0408MD	8.5-9.6	8.5-9.6	40-80	13	9	20	25	22	10	15	9	MB5
MMB8596R0408HD	8.5-9.6	8.5-9.6	40-80	17	9	20	25	22	10	15	9	MB5
MMB8596R1020LD	8.5-9.6	8.5-9.6	100-200	10	9	20	25	22	10	15	9	MB5



IMAGE REJECTION MIXER

Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Frequency (MHz)	LO Power (dBm)	Conversion Loss (dB)	Image rejection (dBc)	Isolation (dB) L-R	Isolation (dB) L-I	Input P1dB (dBm)	Input IP3 (dBm)	Single Sideband Noise(dB)	Case Type
MMB8596R1020MD	8.5-9.6	8.5-9.6	100-200	13	9	20	25	22	10	15	9	MB5
MMB8596R1020HD	8.5-9.6	8.5-9.6	100-200	17	9	20	25	22	10	15	9	MB5
MMB1018R0204LD	10-18	10-18	20-40	10	7.5	20	25	25	6	15	7.5	MB5
MMB1018R0204MD	10-18	10-18	20-40	13	7.5	20	25	25	6	15	7.5	MB5
MMB1018R0204HD	10-18	10-18	20-40	17	7.5	20	25	25	6	15	7.5	MB5
MMB1018R0408LD	10-18	10-18	40-80	10	7.5	20	25	25	6	15	7.5	MB5
MMB1018R0408MD	10-18	10-18	40-80	13	7.5	20	25	25	6	15	7.5	MB5
MMB1018R0408HD	10-18	10-18	40-80	17	7.5	20	25	25	6	15	7.5	MB5
MMB1018R1020LD	10-18	10-18	100-200	10	7.5	20	25	25	6	15	7.5	MB5
MMB1018R1020MD	10-18	10-18	100-200	13	7.5	20	25	25	6	15	7.5	MB5
MMB1018R1020HD	10-18	10-18	100-200	17	7.5	20	25	25	6	15	7.5	MB5
MMB1218R0204LD	12-18	12-18	20-40	10	7	25	30	30	6	15	7	MB5
MMB1218R0204MD	12-18	12-18	20-40	13	7	25	30	30	6	15	7	MB5
MMB1218R0204HD	12-18	12-18	20-40	17	7	25	30	30	6	15	7	MB5
MMB1218R0408LD	12-18	12-18	40-80	10	7	25	30	30	6	15	7	MB5
MMB1218R0408MD	12-18	12-18	40-80	13	7	25	30	30	6	15	7	MB5
MMB1218R0408HD	12-18	12-18	40-80	17	7	25	30	30	6	15	7	MB5
MMB1218R1020LD	12-18	12-18	100-200	10	7	25	30	30	6	15	7	MB5
MMB1218R1020MD	12-18	12-18	100-200	13	7	25	30	30	6	15	7	MB5
MMB1218R1020HD	12-18	12-18	100-200	17	7	25	30	30	6	15	7	MB5
MMB1826R0204LD	18-26	18-26	20-40	10	10	18	50	20	10	15	10	MB5
MMB1826R0204MD	18-26	18-26	20-40	13	10	18	50	20	10	15	10	MB5
MMB1826R0204HD	18-26	18-26	20-40	17	10	18	50	20	10	15	10	MB5
MMB1826R0408LD	18-26	18-26	40-80	10	10	18	50	20	10	15	10	MB5
MMB1826R0408MD	18-26	18-26	40-80	13	10	18	50	20	10	15	10	MB5
MMB1826R0408HD	18-26	18-26	40-80	17	10	18	50	20	10	15	10	MB5
MMB1826R1020LD	18-26	18-26	100-200	10	10	18	50	20	10	15	10	MB5
MMB1826R1020MD	18-26	18-26	100-200	13	10	18	50	20	10	15	10	MB5
MMB1826R1020HD	18-26	18-26	100-200	17	10	18	50	20	10	15	10	MB5
MMB2640R0204LD	26-40	26-40	20-40	10	9	18	25	25	7	15	9	MB5
MMB2640R0204MD	26-40	26-40	20-40	13	9	18	25	25	7	15	9	MB5
MMB2640R0204HD	26-40	26-40	20-40	17	9	18	25	25	7	15	9	MB5
MMB2640R0408LD	26-40	26-40	40-80	10	9	18	25	25	7	15	9	MB5
MMB2640R0408MD	26-40	26-40	40-80	13	9	18	25	25	7	15	9	MB5
MMB2640R0408HD	26-40	26-40	40-80	17	9	18	25	25	7	15	9	MB5
MMB2640R1020LD	26-40	26-40	100-200	10	9	18	25	25	7	15	9	MB5
MMB2640R1020MD	26-40	26-40	100-200	13	9	18	25	25	7	15	9	MB5
MMB2640R1020HD	26-40	26-40	100-200	17	9	18	25	25	7	15	9	MB5

Note 1: this products integrate IF hybrid.

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FEATURE:

- Small Structure, Low Cost, Drop-IN Type
- Wideband Frequency Range, High Reliability
- Field Removable SMA(F) Available
- Low Conversion Loss
- Low LO Drive Power

APPLICATION:

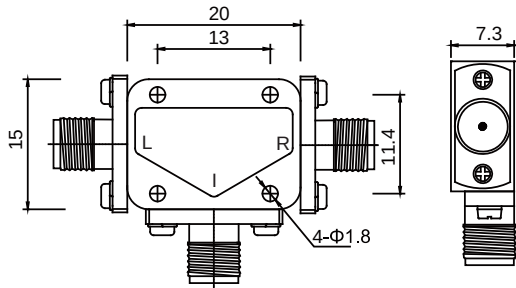
- Test equipment
- Radar & Electronic Warfare
- Communication system



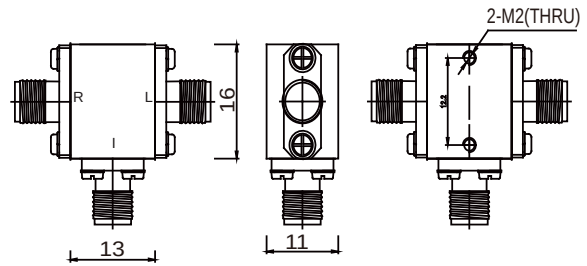
SPECIFICATIONS@25°C:

Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Frequency (GHz)	LO Power (dBm)	Conversion Loss (dB Typ)	Carrier suppression (dBm Typ)	Single Sideband (dBc)	Carrier fundamental IF (dBc typ)	Carrier ± 2 IF, 4 IF, etc. (dBc typ)	Carrier ± 3 IF (dBc typ)	Case Type
MMB0502S0007LMA	0.5-2	0.5-2	DC-700	3	6	25	33	30	50	40	MB5
MMB0306S2040LM	3-6	3-6	200-400	10	7	25	25	30	50	40	MB5
MMB0307S0204HM	3-7	3-7	20-40	17	6	20	25	30	50	40	MB9
MMB0408S1020HM	4-8	4-8	100-200	17	6	25	20	30	50	40	MB5

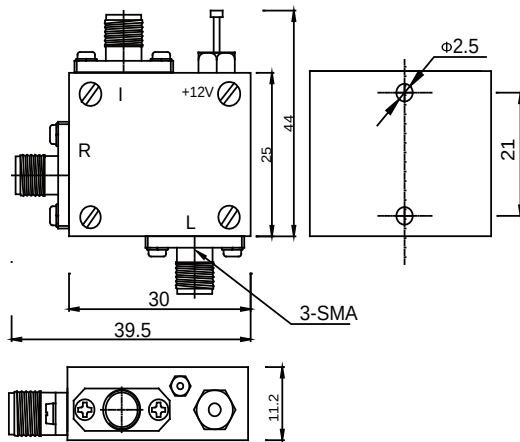
Note 1: this products integrate IF hybrid.



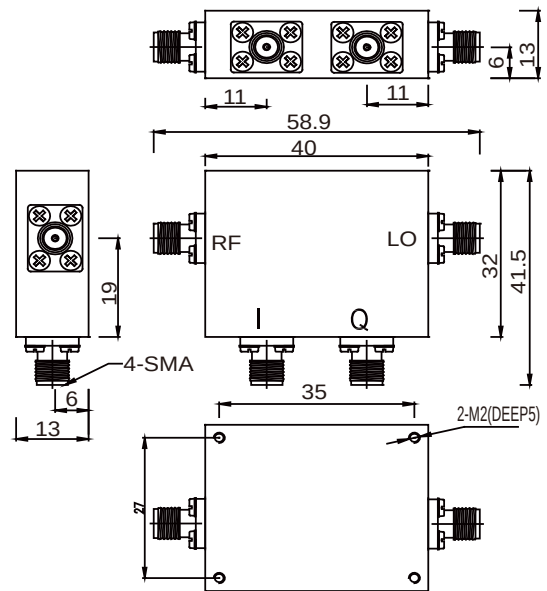
MB1



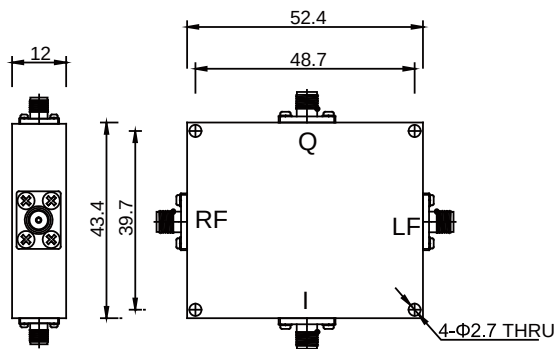
MB2



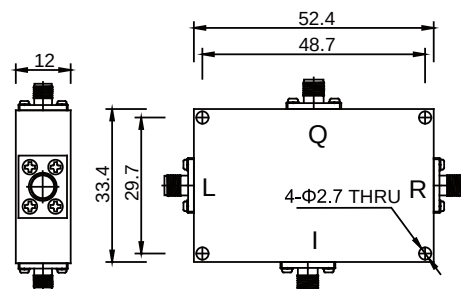
MB3



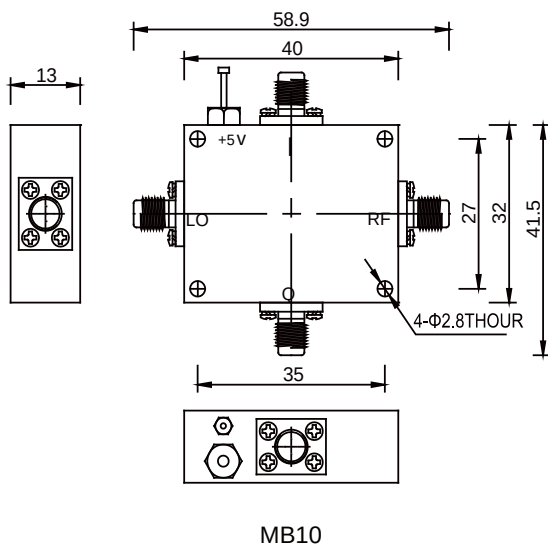
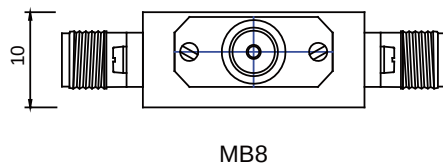
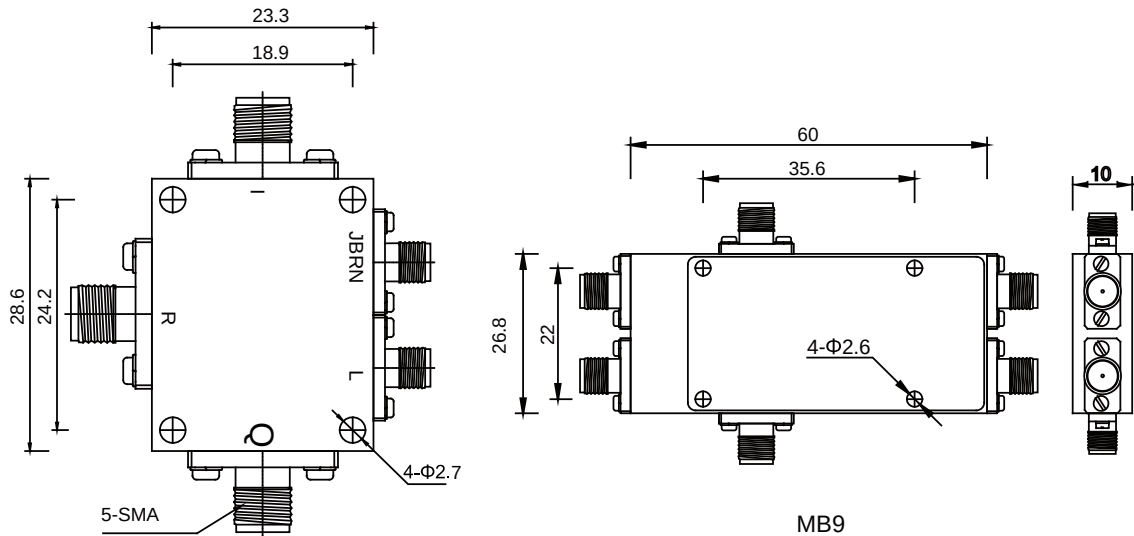
MB5



MB6



MB7



FEATURES

- Operating Frequency Covers 1-18GHz
- Low Insertion Loss
- High Stability
- High Cost&Performance Ratio
- Operating Temperature range: -55~+85°C



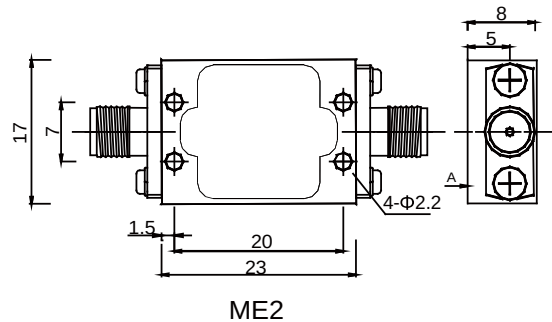
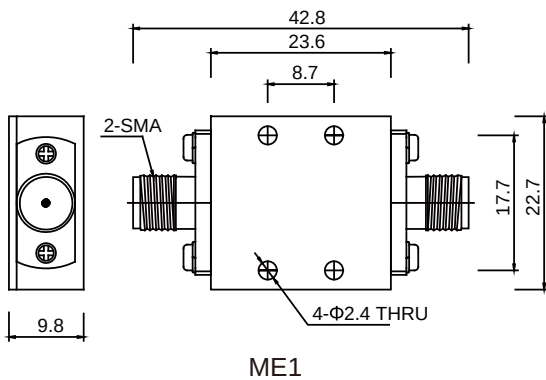
APPLICATIONS

- Communication System
- Test Equipment
- Radar&Warfare System

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Equalizing Quantity (dB.Type)	Insertion Loss (dB.Max)	VSWR (Max)	Case Type
MME010020E03	1-2	3	1.5	1.5:1	ME1
MME010030E03	1-3	3	0.5	1.5:1	ME1
MME010030E06	1-3	6	2	1.5:1	ME1
MME010040E03	1-4	3	0.5	1.5:1	ME1
MME010040E06	1-4	6	1	1.5:1	ME1
MME010040E10	1-4	10	4	1.5:1	ME1
MME010060E03	1-6	3	0.5	1.5:1	ME1
MME010060E06	1-6	6	1	1.5:1	ME1
MME010060E10	1-6	10	2	1.5:1	ME1
MME010090E03	1-9	3	0.5	1.5:1	ME1
MME010090E06	1-9	6	1	1.5:1	ME1
MME010090E10	1-9	10	2	1.5:1	ME1
MME010090E15	1-9	15	3	1.5:1	ME1
MME020040E03	2-4	3	1.5	1.6:1	ME2
MME020040E06	2-4	6	2	1.6:1	ME2
MME020060E03	2-6	3	1	1.5:1	ME1
MME020060E06	2-6	6	2.5	1.5:1	ME1
MME020080E03	2-8	3	1	2:1	ME1
MME020080E06	2-8	6	2	2:1	ME1
MME020080E10	2-8	10	5	2:1	ME1
MME020180E03	2-18	3	1	2:1	ME1
MME020180E06	2-18	6	1.5	2:1	ME1
MME020180E07	2-18	7	3	1.8:1	ME2
MME020180E10	2-18	10	3	2:1	ME2
MME020180E12	2-18	12	5	2:1	ME2
MME020180E15	2-18	15	4	2:1	ME1
MME030060E03	3-6	3	1.5	1.5:1	ME1

Part Number	Frequency Range (GHz)	Equalizing Quantity (dB.Type)	Insertion Loss (dB.Max)	VSWR (Max)	Case Type
MME040080E03	4-8	3	1.5	1.6:1	ME2
MME040080E06	4-8	6	2	1.6:1	ME2
MME040080E08	4-8	8	3	1.6:1	ME2
MME040120E03	4-12	3	2	2:1	ME1
MME040120E06	4-12	6	3	2:1	ME1
MME040180E03	4-18	3	2	2:1	ME1
MME040180E06	4-18	6	2	2:1	ME1
MME040180E10	4-18	10	6	2:1	ME1
MME060180E03	6-18	3	2	2:1	ME1
MME060180E06	6-18	6	3	2:1	ME1
MME080160E03	8-16	3	3	2:1	ME1
MME080180E04	8-18	4	1.5	1.8:1	ME2
MME080180E08	8-18	8	2	1.8:1	ME2
MME080180E12	8-18	12	3	1.8:1	ME2



FEATURE:

- Frequency:0.5~18GHz
- SSB Rejection:30dBc(type)
- Field Removable SMA(F) Connector,Drop-IN Type
- Low Conversion Loss
- Low LO Drive Power



APPLICATION:

- Test equipment
- Radar&Electronic Warfare
- Communication system

SPECIFICATIONS@25°C:

Part Number	LO Carrier Frequency Range(GHz)	RF (GHz)	IF modulation frequency range(MHz)	LO Power (dBm)	IF Power (dBm)	Conversion Loss(dB)	Carrier Suppression (dBc)	Sideband Suppression (dBc)	Carrier fundamental IF(dBc)	Carrier ±2 IF, 4 IF, etc (dBc.typ)	Carrier ±3 IF(dBc.typ)	Case Type
MMB0203S0004LMA	0.3-2.5	0.3-2.5	DC-40	10	5	6	25	25	30	50	40	MB10
MMB0502S0007LMA	0.5-2	0.5-2	DC-700	±3	5	6	25	33	30	50	40	MB10
MMB0102S1020MM	1-2	1-2	100-200	13	5	6	25	20	30	50	40	MB6
MMB0102S1020LM	1-2	1-2	100-200	10	5	6	25	20	30	50	40	MB6
MMB0102S1020HM	1-2	1-2	100-200	17	5	6	25	20	30	50	40	MB6
MMB0102S0204HM	1-2	1-2	20-40	17	5	6	25	20	30	50	40	MB6
MMB0102S0408MM	1-2	1-2	40-80	13	5	6	25	20	30	50	40	MB6
MMB0102S0408LM	1-2	1-2	40-80	10	5	6	25	20	30	50	40	MB6
MMB0102S0408HM	1-2	1-2	40-80	17	5	6	25	20	30	50	40	MB6
MMB0102S0204MM	1-2	1-2	20-40	13	5	6	25	20	30	50	40	MB6
MMB0102S0204LM	1-2	1-2	20-40	10	5	6	25	20	30	50	40	MB6
MMB0306S0204HM	1-2	1-2	20-40	17	5	6	25	20	30	50	40	MB6
MMB0104S1020MM	1-4	1-4	100-200	13	5	6	25	20	30	50	40	MB6
MMB0104S1020LM	1-4	1-4	100-200	10	5	6	25	20	30	50	40	MB6
MMB0104S1020HM	1-4	1-4	100-200	17	5	6	25	20	30	50	40	MB6
MMB0104S0408MM	1-4	1-4	40-80	13	5	6	25	20	30	50	40	MB6
MMB0104S0408LM	1-4	1-4	40-80	10	5	6	25	20	30	50	40	MB6
MMB0104S0408HM	1-4	1-4	40-80	17	5	6	25	20	30	50	40	MB6
MMB0104S0204MM	1-4	1-4	20-40	13	5	6	25	20	30	50	40	MB6
MMB0104S0204LM	1-4	1-4	20-40	10	5	6	25	20	30	50	40	MB6
MMB0104S0204HM	1-4	1-4	20-40	17	5	6	25	20	30	50	40	MB6
MMB0204S1020MM	2-4	2-4	100-200	13	5	6	25	20	30	50	40	MB7
MMB0204S1020LM	2-4	2-4	100-200	10	5	6	25	20	30	50	40	MB7
MMB0204S1020HM	2-4	2-4	100-200	17	5	6	25	20	30	50	40	MB7
MMB0204S0408MM	2-4	2-4	40-80	13	5	6	25	20	30	50	40	MB7
MMB0204S0408LM	2-4	2-4	40-80	10	5	6	25	20	30	50	40	MB7
MMB0204S0408HM	2-4	2-4	40-80	17	5	6	25	20	30	50	40	MB7



SINGLE-SIDEBAND UPCONVERTER MODULATOR

Part Number	LO Carrier Frequency Range(GHz)	RF (GHz)	IF modulation frequency range(MHz)	LO Power (dBm)	IF Power (dBm)	Conversion Loss(dB)	Carrier Suppression (dBc)	Sideband Suppression (dBc)	Carrier fundamental IF(dBc)	Carrier ± 2 IF, 4 IF, etc (dBc.typ)	Carrier ± 3 IF(dBc.typ)	Case Type
MMB0204S0204MM	2-4	2-4	20-40	13	5	6	25	20	30	50	40	MB7
MMB0204S0204LM	2-4	2-4	20-40	10	5	6	25	20	30	50	40	MB7
MMB0204S0204HM	2-4	2-4	20-40	17	5	6	25	20	30	50	40	MB7
MMB0208S1020MM	2-8	2-8	100-200	13	5	6	25	20	30	50	40	MB5
MMB0208S1020LM	2-8	2-8	100-200	10	5	6	25	20	30	50	40	MB5
MMB0208S1020HM	2-8	2-8	100-200	17	5	6	25	20	30	50	40	MB5
MMB0208S0408MM	2-8	2-8	40-80	13	5	6	25	20	30	50	40	MB5
MMB0208S0408LM	2-8	2-8	40-80	10	5	6	25	20	30	50	40	MB6
MMB0208S0408HM	2-8	2-8	40-80	17	5	6	25	20	30	50	40	MB5
MMB0208S0204MM	2-8	2-8	20-40	13	5	6	25	20	30	50	40	MB5
MMB0208S0204LM	2-8	2-8	20-40	10	5	6	25	20	30	50	40	MB5
MMB0208S0204HM	2-8	2-8	20-40	17	5	6	25	20	30	50	40	MB5
MMB0306S2040LM	3-6	3-6	200-400	10	5	7	25	25	30	50	40	MB5
MMB0306S1020MM	3-6	3-6	100-200	13	5	7	25	25	30	50	40	MB5
MMB0306S1020LM	3-6	3-6	100-200	10	5	7	25	25	30	50	40	MB5
MMB0306S1020HM	3-6	3-6	100-200	17	5	7	25	25	30	50	40	MB5
MMB0306S0408MM	3-6	3-6	40-80	13	5	7	25	25	30	50	40	MB5
MMB0306S0408LM	3-6	3-6	40-80	10	5	7	25	25	30	50	40	MB5
MMB0306S0408HM	3-6	3-6	40-80	17	5	7	25	25	30	50	40	MB5
MMB0306S0204MM	3-6	3-6	20-40	13	5	7	25	25	30	50	40	MB5
MMB0306S0204LM	3-6	3-6	20-40	10	5	7	25	25	30	50	40	MB5
MMB0306S0204HM	3-6	3-6	20-40	17	5	7	25	25	30	50	40	MB5
MMB0307S1020MM	3-7	3-7	100-200	13	5	6	25	30	30	50	40	MB5
MMB0307S1020LM	3-7	3-7	100-200	10	5	6	25	30	30	50	40	MB5
MMB0307S1020HM	3-7	3-7	100-200	17	5	6	25	30	30	50	40	MB5
MMB0307S0408MM	3-7	3-7	40-80	13	5	6	25	30	30	50	40	MB5
MMB0307S0408LM	3-7	3-7	40-80	10	5	6	25	30	30	50	40	MB5
MMB0307S0408HM	3-7	3-7	40-80	17	5	6	25	30	30	50	40	MB5
MMB0307S0204MM	3-7	3-7	20-40	13	5	6	25	30	30	50	40	MB5
MMB0307S0204LM	3-7	3-7	20-40	10	5	6	25	30	30	50	40	MB5
MMB0307S0204HM	3-7	3-7	20-40	17	5	6	25	30	30	50	40	MB5
MMB0408S1020MM	4-8	4-8	100-200	13	5	6	25	20	30	50	40	MB5
MMB0408S1020LM	4-8	4-8	100-200	10	5	6	25	20	30	50	40	MB5
MMB0408S1020HM	4-8	4-8	100-200	17	5	6	25	20	30	50	40	MB5
MMB0408S0408MM	4-8	4-8	40-80	13	5	6	25	20	30	50	40	MB5
MMB0408S0408LM	4-8	4-8	40-80	10	5	6	25	20	30	50	40	MB5
MMB0408S0408HM	4-8	4-8	40-80	17	5	6	25	20	30	50	40	MB5



SINGLE-SIDEBAND UPCONVERTER MODULATOR

Part Number	LO Carrier Frequency Range(GHz)	RF (GHz)	IF modulation frequency range(MHz)	LO Power (dBm)	IF Power (dBm)	Conversion Loss(dB)	Carrier Suppression (dBc)	Sideband Suppression (dBc)	Carrier fundamental IF(dBc)	Carrier ± 2 IF, 4 IF, etc (dBc.typ)	Carrier ± 3 IF(dBc.typ)	Case Type
MMB0408S0204MM	4-8	4-8	20-40	13	5	6	25	20	30	50	40	MB5
MMB0408S0204LM	4-8	4-8	20-40	10	5	6	25	20	30	50	40	MB5
MMB0408S0204HM	4-8	4-8	20-40	17	5	6	25	20	30	50	40	MB5
MMB0410S1020MM	4-10	4-10	100-200	13	5	6	25	35	30	50	40	MB5
MMB0410S1020LM	4-10	4-10	100-200	10	5	6	25	35	30	50	40	MB5
MMB0410S1020HM	4-10	4-10	100-200	17	5	6	25	35	30	50	40	MB5
MMB0410S0408MM	4-10	4-10	40-80	13	5	6	25	35	30	50	40	MB5
MMB0410S0408LM	4-10	4-10	40-80	10	5	6	25	35	30	50	40	MB5
MMB0410S0408HM	4-10	4-10	40-80	17	5	6	25	35	30	50	40	MB5
MMB0410S0204MM	4-10	4-10	20-40	13	5	6	25	35	30	50	40	MB5
MMB0410S0204LM	4-10	4-10	20-40	10	5	6	25	35	30	50	40	MB5
MMB0410S0204HM	4-10	4-10	20-40	17	5	6	25	35	30	50	40	MB5
MMB0510S1020MM	5-10	5-10	100-200	13	5	6	25	25	30	50	40	MB5
MMB0510S1020LM	5-10	5-10	100-200	10	5	6	25	25	30	50	40	MB5
MMB0510S1020HM	5-10	5-10	100-200	17	5	6	25	25	30	50	40	MB5
MMB0510S0408MM	5-10	5-10	40-80	13	5	6	25	25	30	50	40	MB5
MMB0510S0408LM	5-10	5-10	40-80	10	5	6	25	25	30	50	40	MB5
MMB0510S0408HM	5-10	5-10	40-80	17	5	6	25	25	30	50	40	MB5
MMB0510S0204MM	5-10	5-10	20-40	13	5	6	25	25	30	50	40	MB5
MMB0510S0204LM	5-10	5-10	20-40	10	5	6	25	25	30	50	40	MB5
MMB0510S0204HM	5-10	5-10	20-40	17	5	6	25	25	30	50	40	MB5
MMB0612S1020MM	6-12	6-12	100-200	13	5	6	25	30	30	50	40	MB5
MMB0612S1020LM	6-12	6-12	100-200	10	5	6	25	30	30	50	40	MB5
MMB0612S1020HM	6-12	6-12	100-200	17	5	6	25	30	30	50	40	MB5
MMB0612S0408MM	6-12	6-12	40-80	13	5	6	25	30	30	50	40	MB5
MMB0612S0408LM	6-12	6-12	40-80	10	5	6	25	30	30	50	40	MB5
MMB0612S0408HM	6-12	6-12	40-80	17	5	6	25	30	30	50	40	MB5
MMB0612S0204MM	6-12	6-12	20-40	13	5	6	25	30	30	50	40	MB5
MMB0612S0204LM	6-12	6-12	20-40	10	5	6	25	30	30	50	40	MB5
MMB0612S0204HM	6-12	6-12	20-40	17	5	6	25	30	30	50	40	MB5
MMB0618S0408MM	6-18	6-18	40-80	13	5	6	25	25	30	50	40	MB5
MMB0618S0408LM	6-18	6-18	40-80	10	5	6	25	25	30	50	40	MB5
MMB0618S0408HM	6-18	6-12	40-80	17	5	6	25	25	30	50	40	MB5
MMB0618S0204MM	6-18	6-18	20-40	13	5	6	25	25	30	50	40	MB5
MMB0618S0204LM	6-18	6-18	20-40	10	5	6	25	25	30	50	40	MB5
MMB0618S0204HM	6-18	6-18	20-40	17	5	6	25	25	30	50	40	MB5
MMB0618S1020LM	6-18	6-18	100-200	10	5	6	25	25	30	50	40	MB5



SINGLE-SIDEBAND UPCONVERTER MODULATOR

Part Number	LO Carrier Frequency Range(GHz)	RF (GHz)	IF modulation frequency range(MHz)	LO Power (dBm)	IF Power (dBm)	Conversion Loss(dB)	Carrier Suppression (dBc)	Sideband Suppression (dBc)	Carrier fundamental IF(dBc)	Carrier ± 2 IF, 4 IF, etc (dBc.typ)	Carrier ± 3 IF(dBc.typ)	Case Type
MMB0618S1020HM	6-18	6-18	100-200	17	5	6	25	25	30	50	40	MB5
MMB0618S1020MM	6-18	6-18	100-200	13	5	6	25	25	30	50	40	MB5
MMB0714S1020MM	7-14	7-14	100-200	13	5	6	25	30	30	50	40	MB5
MMB0714S1020LM	7-14	7-14	100-200	10	5	6	25	30	30	50	40	MB5
MMB0714S1020HM	7-14	7-14	100-200	17	5	6	25	30	30	50	40	MB5
MMB0714S0408LM	7-14	7-14	40-80	10	5	6	25	30	30	50	40	MB5
MMB0714S0408HM	7-14	7-14	40-80	17	5	6	25	30	30	50	40	MB5
MMB0714S0408MM	7-14	7-14	40-80	13	5	6	25	30	30	50	40	MB5
MMB0714S0204HM	7-14	7-14	20-40	17	5	6	25	30	30	50	40	MB5
MMB0714S0204LM	7-14	7-14	20-40	10	5	6	25	30	30	50	40	MB5
MMB0714S0204MM	7-14	7-14	20-40	13	5	6	25	30	30	50	40	MB5
MMB0812S1020MM	8-12	8-12	100-200	13	5	6	25	20	30	50	40	MB5
MMB0812S1020LM	8-12	8-12	100-200	10	5	6	25	20	30	50	40	MB5
MMB0812S1020HM	8-12	8-12	100-200	17	5	6	25	20	30	50	40	MB5
MMB0812S0408MM	8-12	8-12	40-80	13	5	6	25	20	30	50	40	MB5
MMB0812S0408LM	8-12	8-12	40-80	10	5	6	25	20	30	50	40	MB5
MMB0812S0408HM	8-12	8-12	40-80	17	5	6	25	20	30	50	40	MB5
MMB0812S0204MM	8-12	8-12	20-40	13	5	6	25	20	30	50	40	MB5
MMB0812S0204LM	8-12	8-12	20-40	10	5	6	25	20	30	50	40	MB5
MMB0812S0204HM	8-12	8-12	20-40	17	5	6	25	20	30	50	40	MB5
MMB0816S1020MM	8-16	8-16	100-200	13	5	6	25	25	30	50	40	MB5
MMB0816S1020LM	8-16	8-16	100-200	10	5	6	25	25	30	50	40	MB5
MMB0816S1020HM	8-16	8-16	100-200	17	5	6	25	25	30	50	40	MB5
MMB0816S0408MM	8-16	8-16	40-80	13	5	6	25	25	30	50	40	MB5
MMB0816S0408LM	8-16	8-16	40-80	10	5	6	25	25	30	50	40	MB5
MMB0816S0408HM	8-16	8-16	40-80	17	5	6	25	25	30	50	40	MB5
MMB0816S0204MM	8-16	8-16	20-40	13	5	6	25	25	30	50	40	MB5
MMB0816S0204LM	8-16	8-16	20-40	10	5	6	25	25	30	50	40	MB5
MMB0816S0204HM	8-16	8-16	20-40	17	5	6	25	25	30	50	40	MB5
MMB0818S1020MM	8-18	8-18	100-200	13	5	6	25	30	30	50	40	MB5
MMB0818S1020LM	8-18	8-18	100-200	13	5	6	25	30	30	50	40	MB5
MMB0818S1020HM	8-18	8-18	100-200	17	5	6	25	30	30	50	40	MB5
MMB0818S0408MM	8-18	8-18	40-80	13	5	6	25	30	30	50	40	MB5
MMB0818S0408LM	8-18	8-18	40-80	13	5	6	25	30	30	50	40	MB5
MMB0818S0408HM	8-18	8-18	40-80	17	5	6	25	30	30	50	40	MB5
MMB0818S0204MM	8-18	8-18	20-40	13	5	6	25	30	30	50	40	MB5
MMB0818S0204LM	8-18	8-18	20-40	10	5	6	25	30	30	50	40	MB5



SINGLE-SIDEBAND UPCONVERTER MODULATOR

Part Number	LO Carrier Frequency Range(GHz)	RF (GHz)	IF modulation frequency range(MHz)	LO Power (dBm)	IF Power (dBm)	Conversion Loss(dB)	Carrier Suppression (dBc)	Sideband Suppression (dBc)	Carrier fundamental IF(dBc)	Carrier ± 2 IF, 4 IF, etc (dBc.typ)	Carrier ± 3 IF(dBc.typ)	Case Type
MMB0818S0204HM	8-18	8-18	20-40	17	5	6	25	30	30	50	40	MB5
MMB1218S1020MM	12-18	12-18	100-200	13	5	6	25	20	30	50	40	MB5
MMB1218S1020LM	12-18	12-18	100-200	10	5	6	25	20	30	50	40	MB5
MMB1218S1020HM	12-18	12-18	100-200	17	5	6	25	20	30	50	40	MB5
MMB1218S0408MM	12-18	12-18	40-80	13	5	6	25	20	30	50	40	MB5
MMB1218S0408LM	12-18	12-18	40-80	10	5	6	25	20	30	50	40	MB5
MMB1218S0408HM	12-18	12-18	40-80	17	5	6	25	20	30	50	40	MB5
MMB1218S0204MM	12-18	12-18	20-40	13	5	6	25	20	30	50	40	MB5
MMB1218S0204LM	12-18	12-18	20-40	10	5	6	25	20	30	50	40	MB5
MMB1218S0204HM	12-18	12-18	20-40	17	5	6	25	20	30	50	40	MB5

Note 1: this products integrate IF hybrid.

FEATURE:

- Small Structure, Low Cost, Drop-IN Type
- Wideband Frequency Range, High Reliability
- Field Removable SMA(F) Connector
- Low Conversion Loss
- Low LO Drive Power



APPLICATION:

- Test equipment
- Radar & Electronic Warfare
- Communication system

SPECIFICATIONS@25°C:

Part Number	LO Carrier Frequency Range(GHz)	RF Frequency (GHz)	RF Power (dBm)	IF Frequency Range(MHz)	IF Power (dBm)	Conversion Loss(dB)	Carrier Suppression (dBc)	Carrier Fundamental IF(dBc)	Carrier ±2 IF, 4 IF, etc (dBc.typ)	Carrier ±3 IF (dBc)	Case Type
MMB0510Q05HM	0.5-1	0.5-1	5	DC-500	17	7	33	25	50	10	MB5
MMB0510Q05MM	0.5-1	0.5-1	5	DC-500	13	7	33	25	50	10	MB5
MMB0510Q05LM	0.5-1	0.5-1	5	DC-500	10	7	33	25	50	10	MB5
MMB0520Q05HM	0.5-2	0.5-2	5	DC-500	17	7	33	25	50	10	MB5
MMB0520Q05MM	0.5-2	0.5-2	5	DC-500	13	7	33	25	50	10	MB5
MMB0520Q05LM	0.5-2	0.5-2	5	DC-500	10	7	33	25	50	10	MB5
MMB0102Q05HM	1-2	1-2	5	DC-500	17	8	30	20	45	10	MB6
MMB0102Q05LM	1-2	1-2	5	DC-500	10	8	30	20	45	10	MB6
MMB0102Q05MM	1-2	1-2	5	DC-500	13	8	30	20	45	10	MB6
MMB0104Q05MM	1-4	1-4	5	DC-500	13	7	40	27	45	10	MB6
MMB0104Q05LM	1-4	1-4	5	DC-500	10	7	40	27	45	10	MB6
MMB0104Q05HM	1-4	1-4	5	DC-500	17	7	40	27	45	10	MB6
MMB0204Q05HM	2-4	2-4	6	DC-500	17	6	30	24	45	10	MB7
MMB0204Q05LM	2-4	2-4	6	DC-500	10	6	30	24	45	10	MB7
MMB0204Q05MM	2-4	2-4	6	DC-500	13	6	30	24	45	10	MB7
MMB0206Q05LM	2-6	2-6	10	DC-500	17	12	35	30	45	30	MB5
MMB0206Q05MM	2-6	2-6	13	DC-500	17	12	35	30	45	30	MB5
MMB0206Q05HM	2-6	2-6	17	DC-500	17	12	35	30	45	30	MB5
MMB0226Q05MM	2-26	2-26	5	DC-500	13	12	25	20	45	10	MB5
MMB0226Q05HM	2-26	2-26	5	DC-500	17	12	25	20	45	10	MB5
MMB0226Q05LM	2-26	2-26	5	DC-500	10	12	25	20	45	10	MB5
MMB2232Q05HM	2.2-3.2	2.2-3.2	5	DC-500	17	6	25	30	40	40	MB5
MMB2232Q05LM	2.2-3.2	2.2-3.2	5	DC-500	10	6	25	30	40	40	MB5
MMB2232Q05MM	2.2-3.2	2.2-3.2	5	DC-500	13	6	25	30	40	40	MB5
MMB2737Q05MM	2.7-3.7	2.7-3.7	5	DC-500	13	6	25	30	40	40	MB5
MMB2737Q05LM	2.7-3.7	2.7-3.7	5	DC-500	10	6	25	30	40	40	MB5
MMB2737Q05HM	2.7-3.7	2.7-3.7	5	DC-500	17	6	25	30	40	40	MB5

Part Number	LO Carrier Frequency Range(GHz)	RF Frequency (GHz)	RF Power (dBm)	IF Frequency Range(MHz)	IF Power (dBm)	Conversion Loss(dB)	Carrier Suppression (dBc)	Carrier Fundamental IF(dBc)	Carrier ± 2 IF, 4 IF, etc (dBc.typ)	Carrier ± 3 IF (dBc)	Case Type
MMB0307Q05MM	3.5-6.5	3.5-6.5	6	DC-500	13	8	30	25	45	10	MB5
MMB0307Q05LM	3.5-6.5	3.5-6.5	6	DC-500	10	8	30	25	45	10	MB5
MMB0307Q05HM	3.5-6.5	3.5-6.5	6	DC-500	17	8	30	25	45	10	MB5
MMB0305Q05LM	3.5-5.9	3.5-5.9	5	DC-500	10	9	45	30	45	25	MB5
MMB0305Q05MM	3.5-5.9	3.5-5.9	5	DC-500	13	9	45	30	45	25	MB5
MMB0305Q05HM	3.5-5.9	3.5-5.9	5	DC-500	17	9	45	30	45	25	MB5
MMB0408Q05MM	4-8	4-8	5	DC-500	13	6	30	25	45	10	MB5
MMB0408Q05LM	4-8	4-8	5	DC-500	10	6	30	25	45	10	MB5
MMB0408Q05HM	4-8	4-8	5	DC-500	17	6	30	25	45	10	MB5
MMB0610Q05MM	6-10	6-10	5	DC-500	13	7	33	25	50	10	MB5
MMB0610Q05LM	6-10	6-10	5	DC-500	10	7	33	25	50	10	MB5
MMB0610Q05HM	6-10	6-10	5	DC-500	17	7	33	25	50	10	MB5
MMB0618Q05MM	6-18	6-18	5	DC-500	13	9	25	30	50	40	MB5
MMB0618Q05LM	6-18	6-18	5	DC-500	17	9	25	30	50	40	MB5
MMB0618Q05HM	6-18	6-18	5	DC-500	17	9	25	30	50	40	MB5
MMB0708Q05MM	7.2-8.4	7.2-8.4	6	DC-500	13	7.5	30	25	20	20	MB5
MMB0708Q05LM	7.2-8.4	7.2-8.4	6	DC-500	10	7.5	30	25	20	20	MB5
MMB0708Q05HM	7.2-8.4	7.2-8.4	6	DC-500	17	7.5	30	25	20	20	MB5
MMB0812Q05MM	8-12	8-12	5	DC-500	13	6	30	25	45	10	MB5
MMB0812Q35LM	8-12	8-12	5	DC-500	10	6	30	25	45	10	MB5
MMB0812Q05LM	8-12	8-12	5	DC-500	10	6	30	25	45	10	MB5
MMB0812Q05HM	8-12	8-12	5	DC-500	17	6	30	25	45	10	MB5
MMB0813Q05LM	8-13	8-13	5	DC-500	10	6	30	25	45	10	MB5
MMB0813Q05MM	8-13	8-13	5	DC-500	13	6	30	25	45	10	MB5
MMB0813Q05HM	8-13	8-13	5	DC-500	17	6	30	25	45	10	MB5
MMB0816Q05MM	8-16	8-16	5	DC-500	13	6	30	25	45	10	MB5
MMB0816Q05LM	8-16	8-16	5	DC-500	10	6	30	25	45	10	MB5
MMB0816Q05HM	8-16	8-16	5	DC-500	17	6	30	25	45	10	MB5
MMB1012Q05MM	10-12	10-12	6	DC-500	13	8	30	25	30	30	MB5
MMB1012Q05LM	10-12	10-12	6	DC-500	10	8	30	25	30	30	MB5
MMB1012Q05HM	10-12	10-12	6	DC-500	17	8	30	25	30	30	MB5
MMB1015Q05MM	10-15	10-15	6	DC-500	13	8	30	25	30	30	MB5
MMB1015Q05LM	10-15	10-15	6	DC-500	10	8	30	25	30	30	MB5
MMB1015Q05HM	10-15	10-15	6	DC-500	17	8	30	25	30	30	MB5
MMB1116Q05MM	11-16	11-16	5	DC-500	13	10	25	23	35	10	MB5
MMB1116Q05LM	11-16	11-16	5	DC-500	10	10	25	23	35	10	MB5
MMB1116Q05HM	11-16	11-16	5	DC-500	17	10	25	23	35	10	MB5

Part Number	LO Carrier Frequency Range(GHz)	RF Frequency (GHz)	RF Power (dBm)	IF Frequency Range(MHz)	IF Power (dBm)	Conversion Loss(dB)	Carrier Suppression (dBc)	Carrier Fundamental IF(dBc)	Carrier ±2 IF, 4 IF, etc (dBc.typ)	Carrier ±3 IF (dBc)	Case Type
MMB1216Q05MM	12-16	12-16	5	DC-500	13	10	25	23	35	10	MB5
MMB1216Q05LM	12-16	12-16	5	DC-500	10	10	25	23	35	10	MB5
MMB1216Q05HM	12-16	12-16	5	DC-500	17	10	25	23	35	10	MB5
MMB1218Q05MM	12-18	12-18	5	DC-500	13	10	25	23	35	10	MB5
MMB1218Q05LM	12-18	12-18	5	DC-500	10	10	25	23	35	10	MB5
MMB1218Q05HM	12-18	12-18	5	DC-500	17	10	25	23	35	10	MB5
MMB1521Q05MM	15-21	15-21	5	DC-500	13	9	30	30	40	40	MB5
MMB1521Q05LM	15-21	15-21	5	DC-500	10	9	30	30	40	40	MB5
MMB1521Q05HM	15-21	15-21	5	DC-500	17	9	30	30	40	40	MB5
MMB1523Q05MM	15-23	15-23	5	DC-500	13	9	30	30	40	40	MB5
MMB1523Q05LM	15-23	15-23	5	DC-500	10	9	30	30	40	40	MB5
MMB1523Q05HM	15-23	15-23	5	DC-500	17	9	30	30	40	40	MB5
MMB1626Q05MM	16-26	15-23	5	DC-500	13	9	30	30	40	40	MB5
MMB1626Q05LM	16-26	15-23	5	DC-500	10	9	30	30	40	40	MB5
MMB1626Q05HM	16-26	15-23	5	DC-500	17	9	30	30	40	40	MB5
MMB1826Q05MM	18-26	18-26	5	DC-500	13	9	30	30	40	40	MB5
MMB1826Q05LM	18-26	18-26	5	DC-500	10	9	30	30	40	40	MB5
MMB1826Q05HM	18-26	18-26	5	DC-500	17	9	30	30	40	40	MB5

Note 1: this products do not integrate IF hybrid.

FEATURE:

- Solid State,Mixture Integrated
- High Speed,Low Loss,High Isolation
- Field Removable SMA(F) Connector
- Integrated with Driver

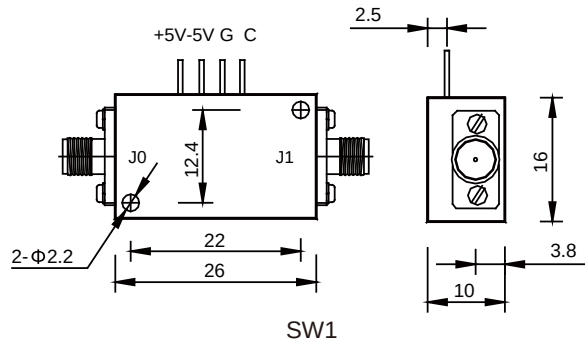
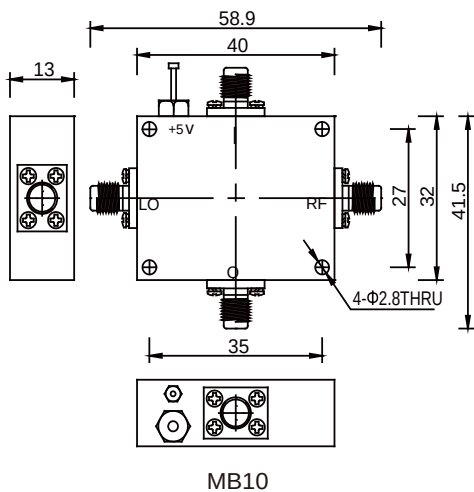
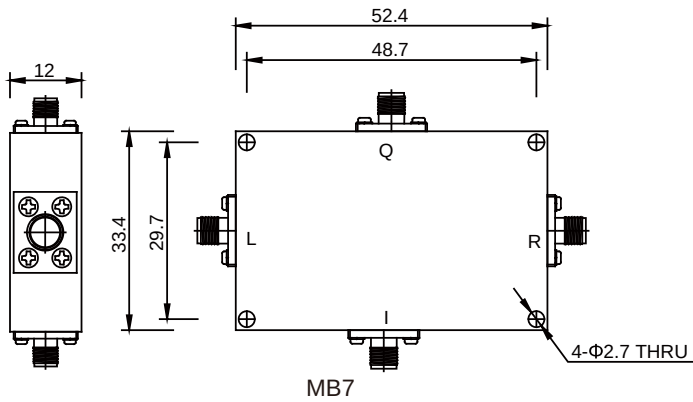
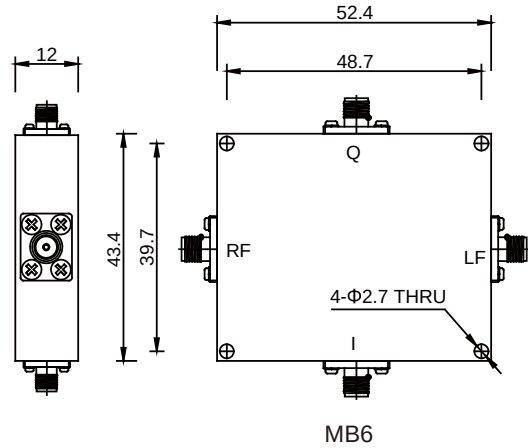
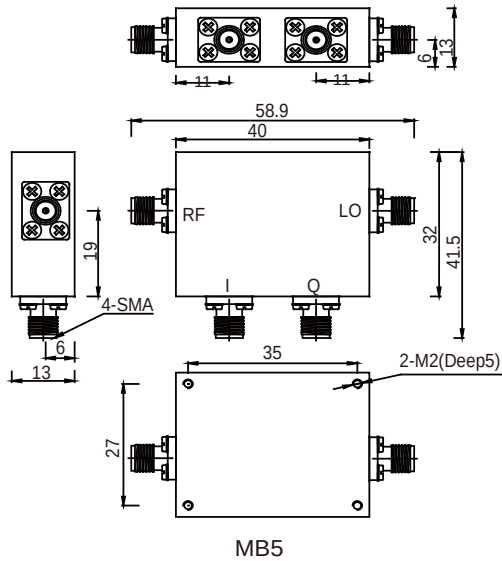


APPLICATION:

- Test equipment
- Radar&Warfare system
- Communication system

SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	Isolation (dB.Min)	VSWR (Max)	Power Handling (Watt.Max)	Switching Time (ns.Max)	Current@ +/-5VDC (mA.Typ)	Case Type
SPST001005N6	0.1-0.5	1.1	60	1.5	1	50	30/20	SW1
SPST001005N8	0.1-0.5	1.1	80	1.5	1	50	30/20	SW1
SPST005010N6	0.5-1	0.8	60	1.5	1	50	30/20	SW1
SPST005010N8	0.5-1	1.1	80	1.5	1	50	30/20	SW1
SPST005180N6	0.5-18	2.1	60	2.2	1	50	30/20	SW1
SPST005180N8	0.5-18	2.5	80	2.2	1	50	30/20	SW1
SPST010020N6	1-2	0.7	60	1.5	1	50	30/20	SW1
SPST010020N8	1-2	1.2	80	1.5	1	50	30/20	SW1
SPST020040N6	2-4	0.9	60	1.5	1	50	30/20	SW1
SPST020040N8	2-4	1.3	80	1.5	1	50	30/20	SW1
SPST040080N6	4-8	1.2	60	1.7	1	50	30/20	SW1
SPST040080N8	4-8	1.4	80	1.7	1	50	30/20	SW1
SPST080120N6	8-12	1.5	60	1.7	1	50	30/20	SW1
SPST080120N8	8-12	1.9	80	1.7	1	50	30/20	SW1
SPST120180N8	12-18	2.5	80	2	1	50	30/20	SW1
SPST120180N6	12-18	2.1	60	2	1	50	30/20	SW1



FEATURE:

- Fast switching speeds(down to 20 ns maximum)
- Optimized for lowest phase deviation over band
- RMS phase error $\leq 3^\circ$ typical
- Low insertion loss
- Power handing up to 30 dbm
- IP3(typically 25 dbm)
- Hermetic sealing available

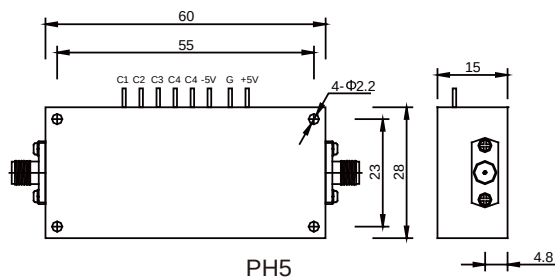
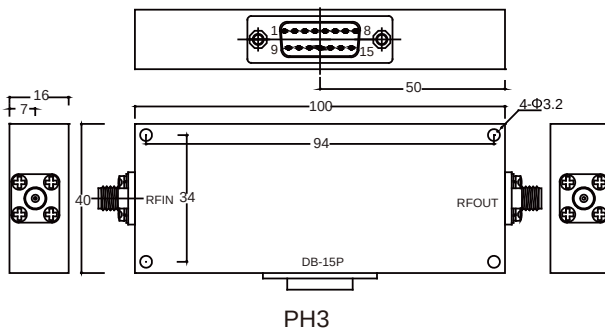
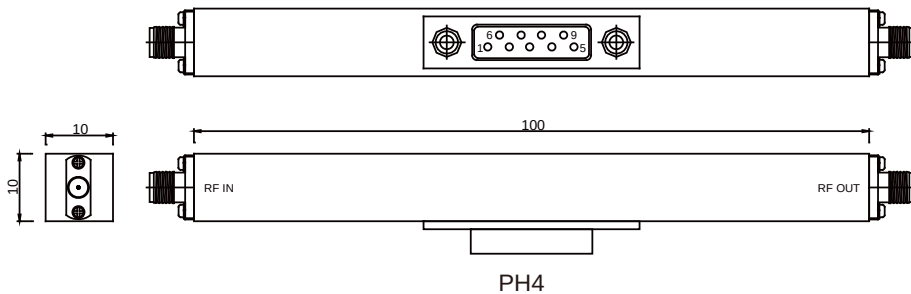
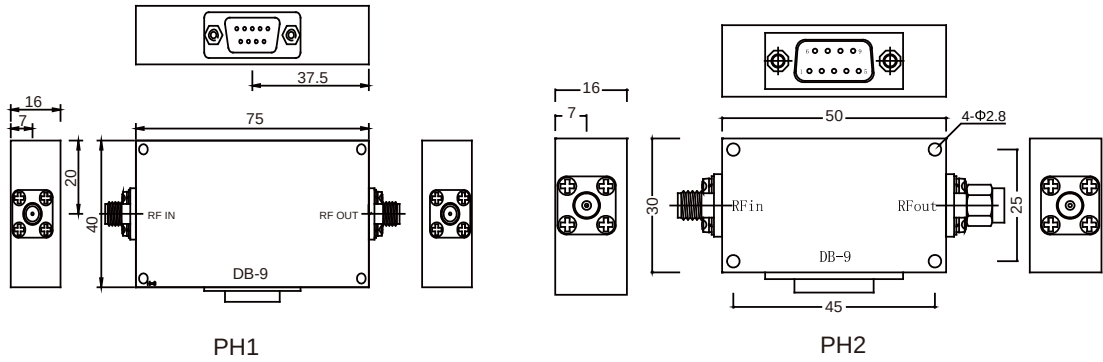
APPLICATION:

- Test equipment
- Radar&Warfare array system
- Communication system



SPECIFICATIONS@25°C:

Part Number	Frequency Range (GHz)	Insertion Loss (dB.Typ)	VSWR (Max)	Switching Speed (ns)	Phase Accuracy (°)	Amplitude Balance (dB.Max)	Phase Shift (°)	Step Size (°)	Control (Bits)	Power Handling (dBm)	Case Type
MPS005020B8L	0.5-2	13	1.7:1	500	10	1	360	1.4	8	30	PH3
MPS021024B6L	2.1-2.4	3.5	1.4:1	600	3	0.5	360	5.626	6	20	PH1/PH2
MPS021024B6M	2.1-2.4	3.5	1.4:1	300	3	0.5	360	5.625	6	27	PH1/PH2
MPS020040B5L	2-4	3.5	1.5:1	300	3	0.6	360	11.25	5	27	PH1/PH2
MPS020040B6L	2-4	4	1.5:1	300	3	0.6	360	5.625	6	27	PH1/PH2
MPD020040B8M	2-4	8	1.7:1	500	4	1	360	1.4	8	27	PH3
MPS022023B6L	2.2-2.3	/	18dB	/	/	/	360	5.625	6	-70~-30	PH1
MPS022023B10L	2.2-2.3	6	1.5:1	500	3	1	360	0.35	10	20	PH1/PH2
MPS023025B5M	2.3-2.5	3.6	1.6:1	750	3	1	360	11.25	5	27	PH2
MPS023024B6L	2.342-2.442	3	1.4:1	360	3	0.5	360	5.625	6	20	PH1/PH2
MPH246244B6L	2.44-2.46	3.5	1.4	300	3	0.5	360	5.625	6	27	PH1
MPS030035B6L	3.0-3.5	2.2	1.5:1	750	3	0.5	360	5.625	6	20	PH1/PH2
MPS036042B5L	3.6-4.2	3.5	1.5:1	750	3	0.5	348.75	11.25	5	20	PH1/PH2
MPS053059B5L	5.3-5.9	4	1.5:1	100	3	1	348.75	11.25	5	20	PH1/PH2
MPS065075B6L	6.5-7.5	5	1.5:1	300	3	0.5	360	5.625	6	20	PH1/PH2
MPS079086B6L	7.9-8.6	/	12dB	/	/	/	360	5.625	6	-70~-30	PH1
MPS090110B4L	9-11	5.5	1.8:1	5000	5	0.5	337.5	10	4	27	PH2
MPS248252B5H	24.8-25.2	2	1.9:1	1000	5	0.2	360	11.25	5	30	PH4
MPS250250B5H	25-25	10	2:1	100	2	0.2	360	11.25	5	100	PH5





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