

Class A Broadband Amplifier

1MHz ... 550 MHz. 10 Watt linear



The IE-PA-1-550-40A is a 10W class A amplifier designed for 1 to 550MHz broadband operation. This amplifier uses advanced broadband matching techniques and high reliability gold mosfets to achieve high linearity, extreme ruggedness and broadband operation. This design is stable from 22 to 30 volts and it can withstand infinite VSWR at 10W CW making it ideal for laboratory use.

Applications:

- Signal generator source boost
- Network analyzer source boost
- TV/FM/Communications driver stage
- Laboratory research

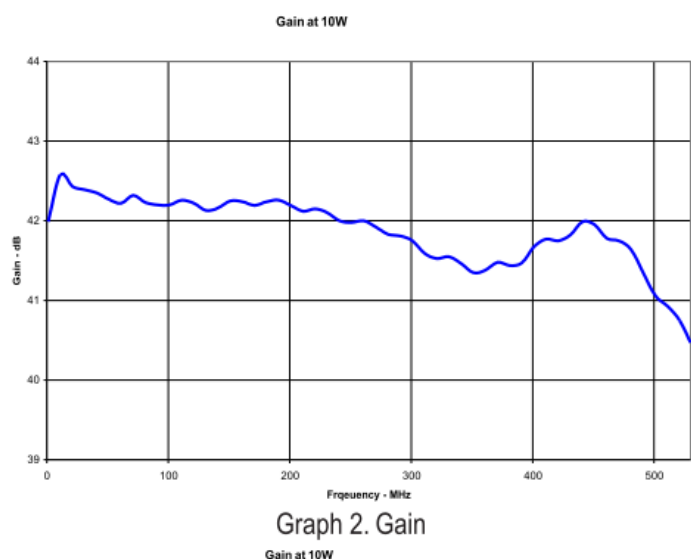
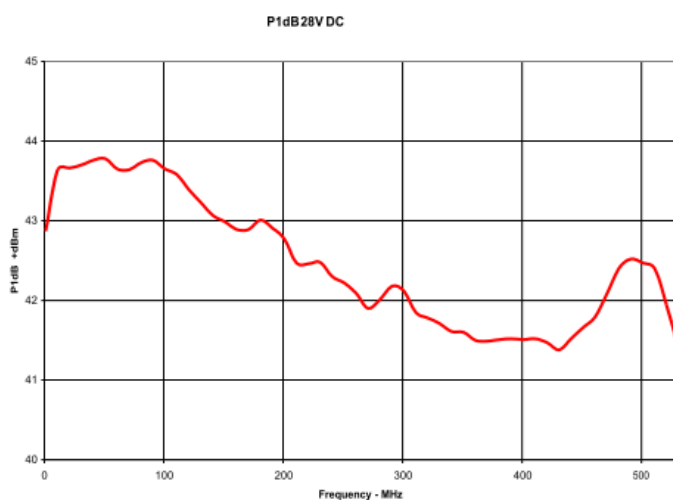
SPECS

Parameter	Min.	Typ	Max.	Unit
Frequency	1	525	550	MHz
Pout CW P1dB	40			dBm
Power In		-2		dBm
Gain	40	42		dB
S21 Flatness		+/- 1.5		dB
Drain Current		1.8	2.5	Amps
Input R/L			-15	dB
Supply Voltage	20	28	32	Volts DC
IMD 2 tone 10KHz		-34	-28	dBc
2nd Harmonic		-30	-20	dBc
3rd Harmonic		-30	-25	dBc

Physical Dimensions

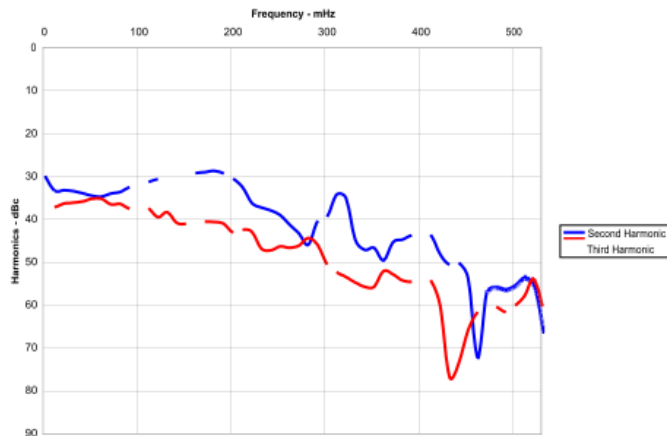
4.25 x 2.50 x 1.1 inches

PLEASE NOTE: A suitable heatsink is required.

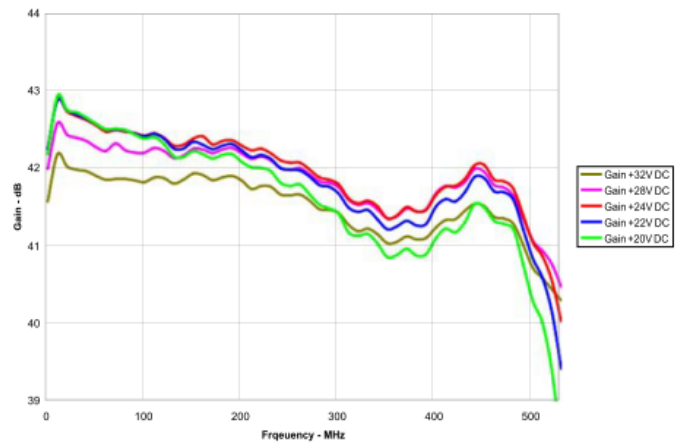


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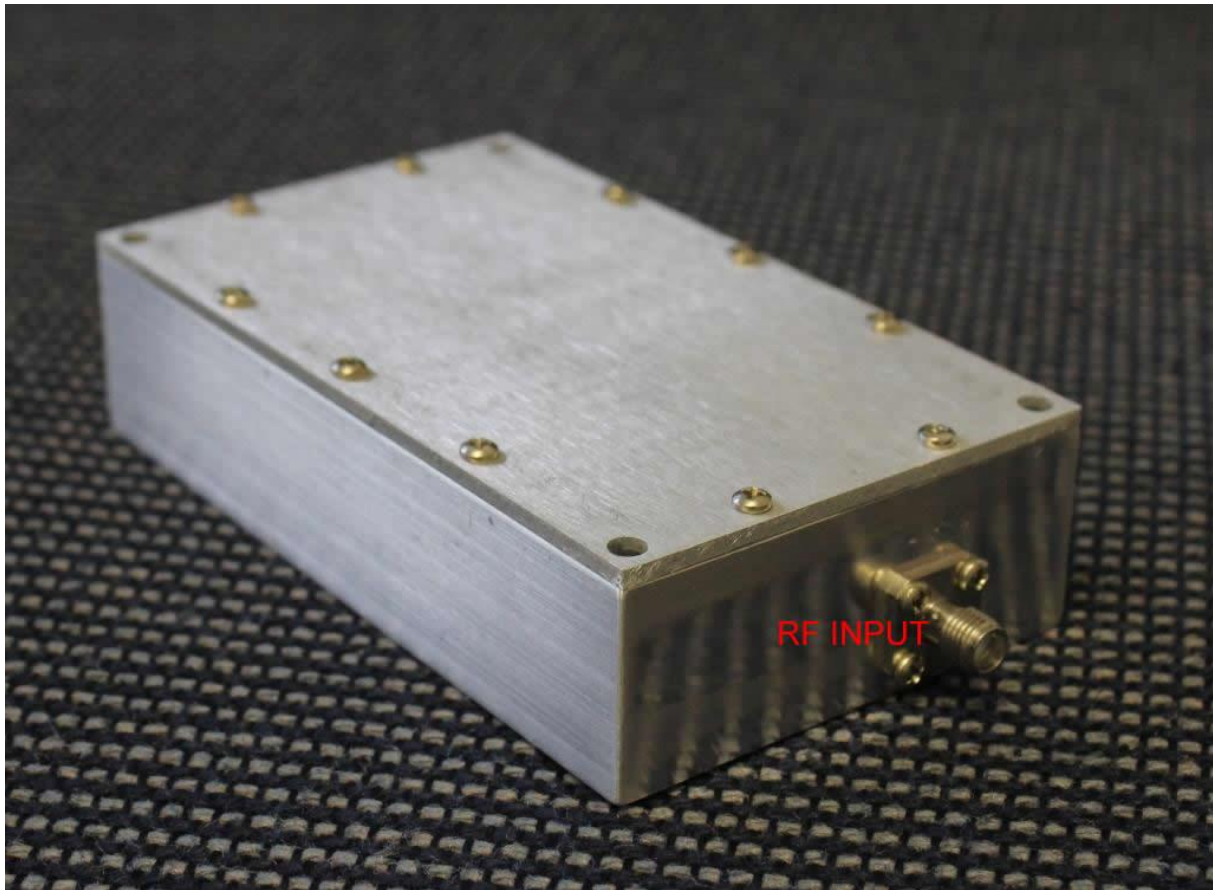
Graph 3. Harmonics



Graph 4. Gain vs. Voltage

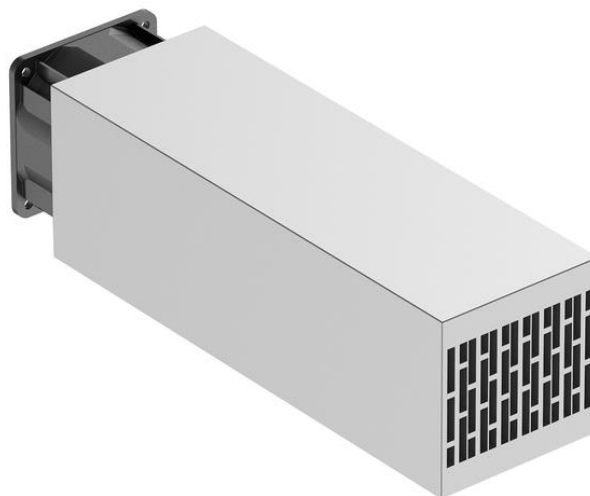


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Suitable Heatsink (Example)

LA 28 100 24V; High performance cooling aggregate with integral Fan



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Frequency Response

