

TECHNICAL BULLETIN

BROADBAND RF POWER AMPLIFIER

E16402-01-05

Rev.B

Designed for Wide-band High Power application. This amplifier utilizes GaAs MMIC pHEMT Distributed Power Amplifier. It provides good flatness in 0.5-22 GHz range.

Absolute Maximum Ratings

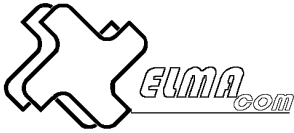
Parameter	Rating	Units
Supply Voltage	12	Vdc
Output Power	18	W
Operating Temperature	-40 to + 70	°C
Storage Temperature	-55 to +140	°C

Electrical Characteristics @ T = 25 °C & VDD = 10.0 Vdc

Parameter	Values	Units
Frequency Range	0.5-18	GHz
Output Power @ 1 dB comp.	25	dBm
Output Power @ saturation	29	W
Small Signal Gain	12	dB
Gain Flatness	+/- 0.7	dB
Noise Figure	5	dB
Input/Output Return Loss	8	dB
Supply Voltage	8-11	V

ELMACOM srl

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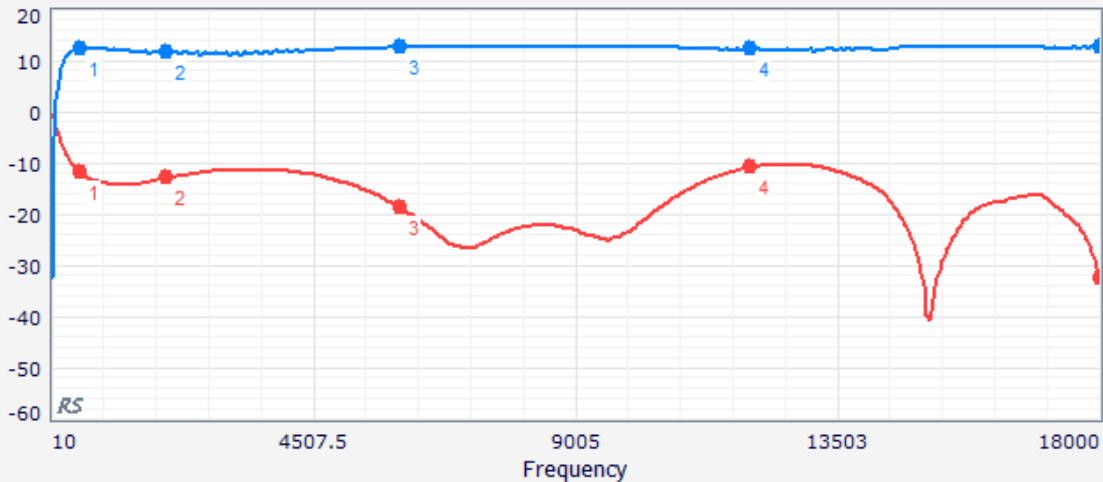
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Gain_SN017.s2p

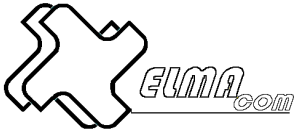


Marker	1	2	3	4	5
Freq[MHz]	500	2000	6000	12000	18000
S11[dB](1)	-11.6	-12.6	-18.4	-10.6	-32.3
S21[dB](1)	12.5	11.9	12.9	12.5	12.9

OUTLINE DRAWING *“Adequate Heatsink Required” Maximum plate temperature 70°C*

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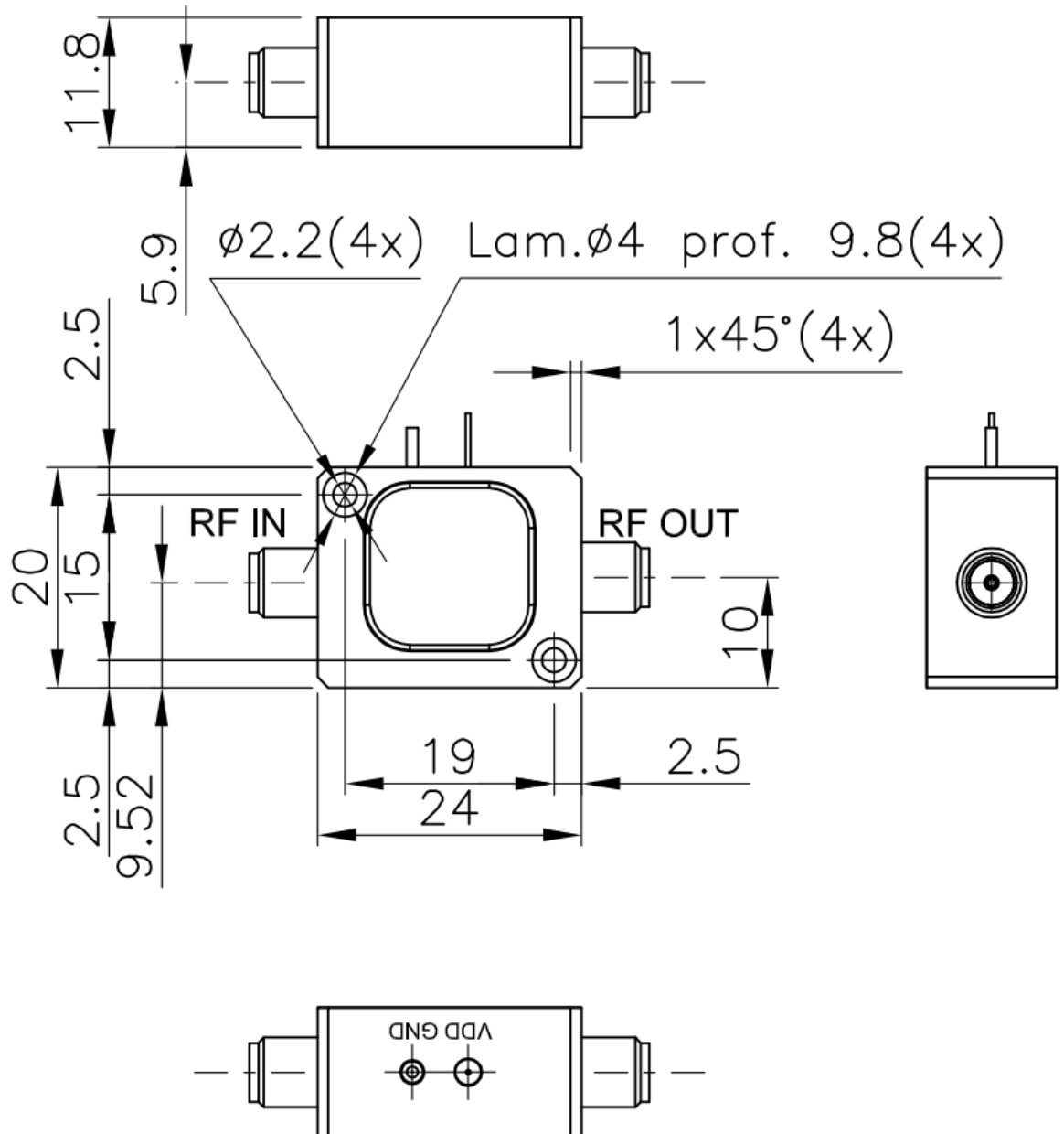


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