



TECHNICAL BULLETIN

VHF-UHF BROADBAND HIGH POWER AMPLIFIER

E12392-01-05

This model is a 100 Watt Class AB linear power amplifier designed for Wide-band applications in the 30 - 500 MHz frequency band.

This high reliability amplifier uses Power MOS FET devices operated in Class AB for optimum broadband gain, output power and wide dynamic range.

High efficiency, reliable operation and flat gain are being achieved by employing unique broadband RF networks, custom machined housing and heavy duty components.

Each unit undergoes extensive burn-in prior to final test and Q/A.

Absolute Maximum Ratings

Parameter	Rating	Units
Supply Voltage	30	Vdc
Operating Temperature	-40 to + 90	°C
Storage Temperature	-54 to +125	°C

Electrical Characteristics @ T = 25°C & VDD = 28 Vdc

Parameter	Values		Units
Frequency Range	30 - 500	min	MHz
Output Power @ 1 dB comp.	80	min	W
	100	tip	
Output Power @ saturation	130	tip	W
Gain @ 100 W Output	10	min	dB
Linear Gain	12	tip	dB
Gain Flatness	+/- 1	max	dB
2 nd Harmonic @ 80W out level	-25	max	dBc
3 rd Harmonic @ 80W out level	-15	max	dBc
Return Loss	-10	max	dB

ELMACOM srl

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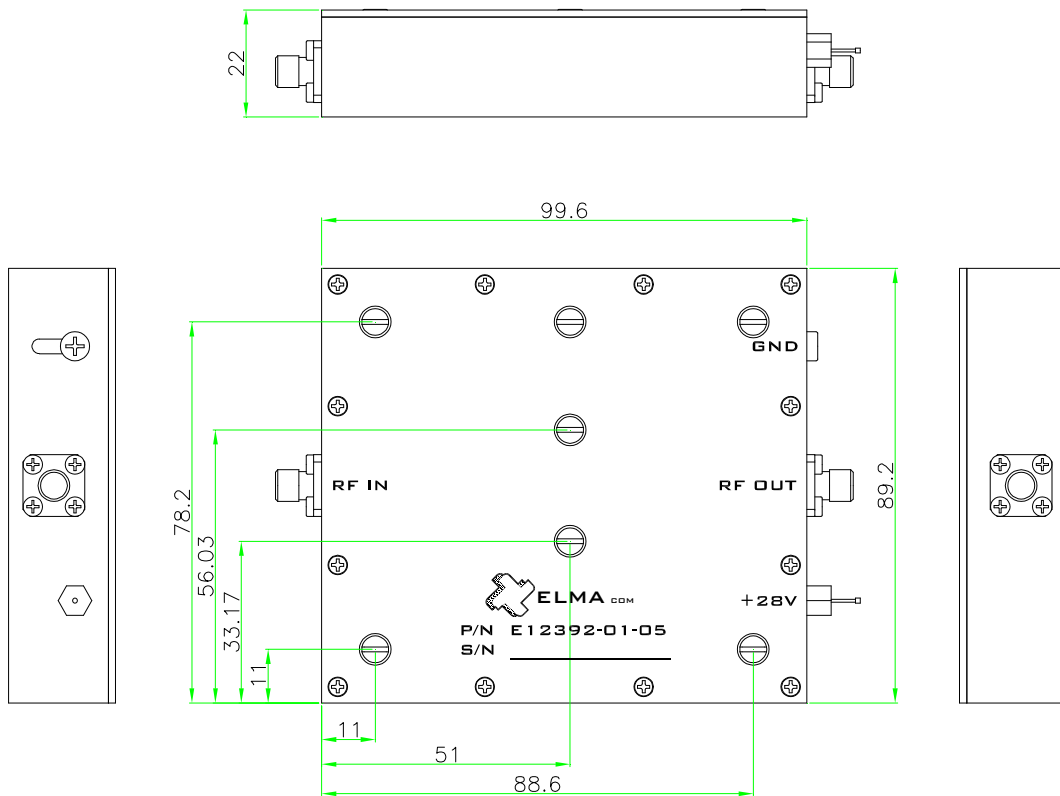


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OUTLINE DRAWING "Adequate Heatsink Required"



Dimensions in mm

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