



TECHNICAL BULLETIN

WIDE-BAND HIGH POWER RF AMPLIFIER

E10110-01-05

REV.C

This model is a 200 Watt Class AB linear power amplifier designed for Wide-band applications in the 100 - 500 MHz frequency band for both CW and pulse application. 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, low loss 90° hybrid couplers, custom machined housing and heavy duty components. Each unit undergoes extensive burn-in prior to final test and Q/A.

Absolute Maximum Ratings at 25°C

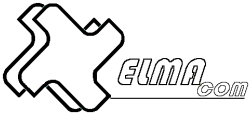
Parameter	Rating	Units
Supply Voltage	30	Vdc
Input Current	25	A
Vbias Input	5.1	Vdc
Input Power	50	W
Operating Temperature	-40 to + 90	°C
Storage Temperature	-54 to +125	°C

Electrical Characteristics @ T = 25°C & VDD = 28.5 Vdc

Parameter	Values		Units
Frequency Range	100 - 500	min	MHz
Output Power @ saturation	220 @ 100 to 450 MHz	min	W
Output Power @ saturation	200 @ 450 to 500 MHz	typ	W
Gain @ 200 W Output	10 @ 100 to 450 MHz	typ	dB
Gain Flatness	+/- 2	max	dB
2 nd Harmonic @ 1dB comp	- 25	max	dBc
3 rd Harmonic @ 1dB comp	-15	max	dBc
Input/Output VSWR	1.6 :1 max		
Vbias Input @ 10 mA	0 - 5	max	Vdc
Input Signal	CW/AM/FM/PM/Pulse		

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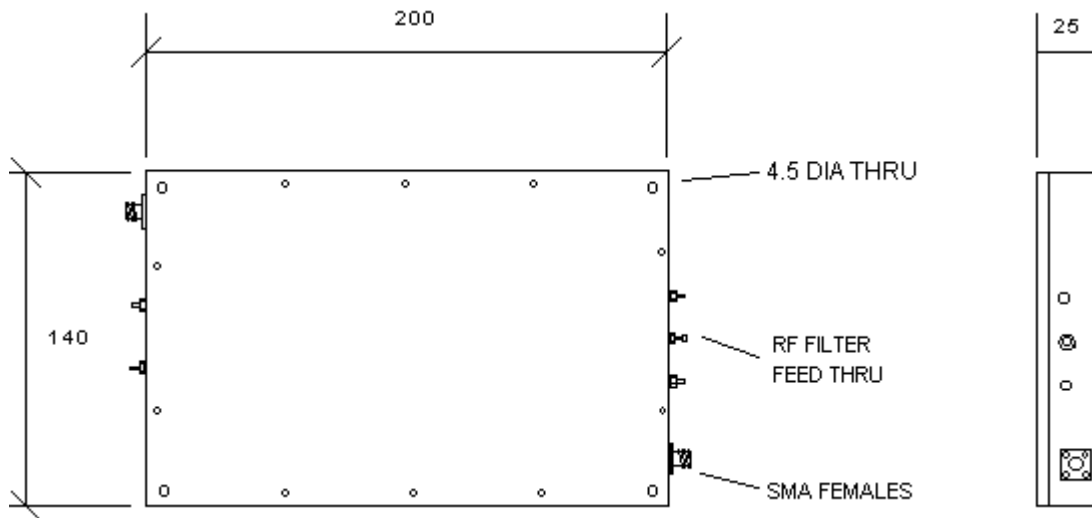
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OUTLINE DRAWING "Adequate Heatsink Required"

Open the cover and fix the module through the screws into the available holes



Dimensions in mm

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