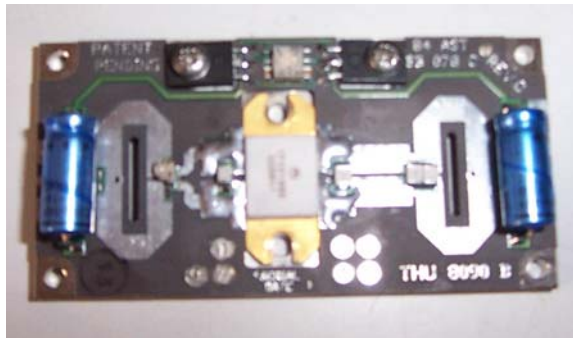


95 W Class AB UHF Amplifier

Designed for TV transposers and transmitters, this amplifier incorporates microstrip technology and discrete linear push-pull transistors with diffused emitter ballast resistors to enhance ruggedness and reliability.

- 470 - 860 MHz
- 28 Volts
- Input/Output 50 Ω - 50 Ω
- P_{out} : 95 W Min @ 1dB Comp. (CW)
- Gain : 8 dB Min
- Class AB



ABSOLUTE MAXIMUM RATINGS (Device Flange T = 70 °C)

Symbol	Parameter	Value	Unit
V_s	Supply Voltage	32	V dc
I_s	Current	6.8	A dc
Tstg	Storage Temperature Range	-40 + 100	°C
Tc	Operating Case Temperature	-20 + 70	°C

ELECTRICAL SPECIFICATIONS (Base Plate Temperature = 45 °C, 50 Ω loaded, Vd = 28 V, Id = 3.4A)

Symbol	Parameter	Test Conditions	Value		Unit
			Min	Max	
BW	Bandwidth	Without Returning	470	860	MHz
Gp	Power Gain	$P_{out} = 95W$	8		dB
$P_{out} - 1dB$	Power Output @ 1db Compression		95		W
VSWR	Mismatch Tolerance	$P_{out} = 95W$	3:1		-
η	Efficiency	$P_{out} = 95W$	50		%
Gr	Gain Flatness	$P_{out} = 95W$		± 1	DB

Contact Res-Ingenium, +39 0763 316333 Fax +39 0763316002- or visit www.res-ingenium.com for a complete listing.

HEATSINK MOUNTING/HARDWARE

1. HEATSINK TOOLING

- Planarity: typical value 0.8
- Roughness: better than 0.03 mm

2. THERMAL COMPOUND

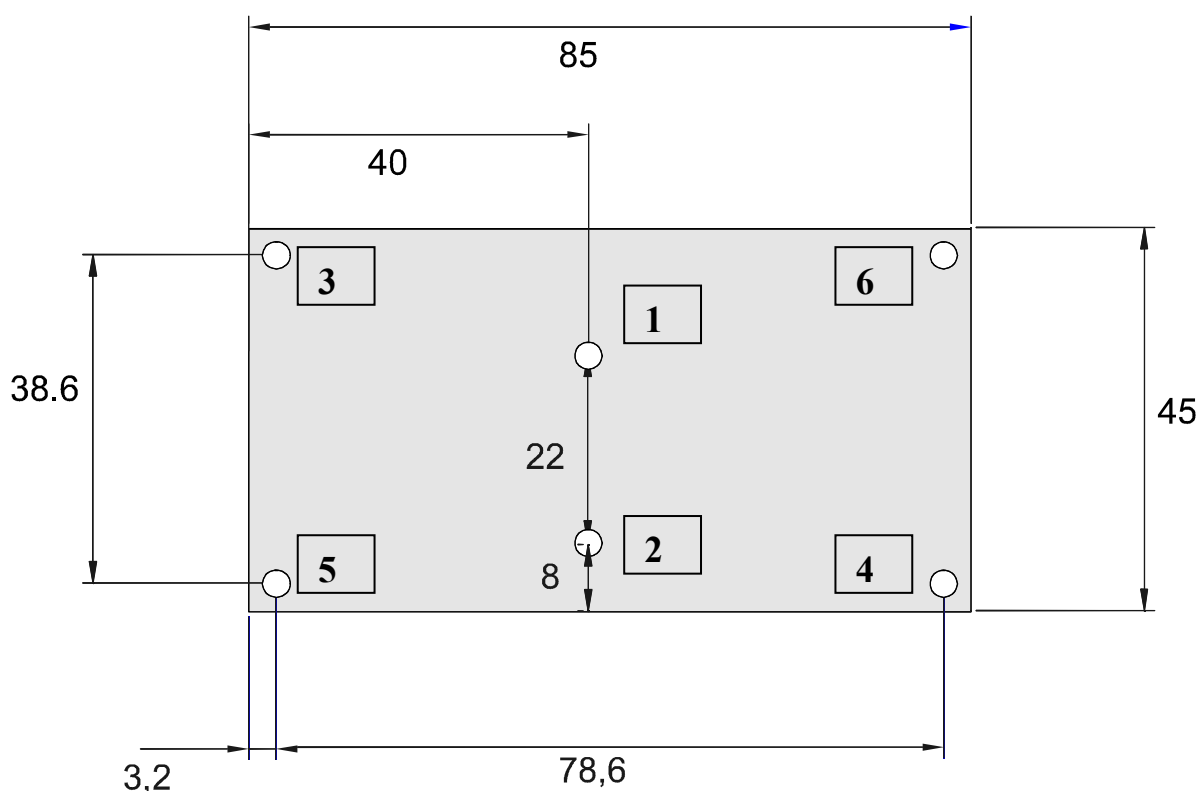
- Paste with silicones
- Thickness: optimum between 0.06 mm and 0.15 mm, on the whole back surface of the amplifier.

3. SCREWS

- 8 x M3 - Socket head cap screws.
- 8 Split lock washers WZ Ø3 + 8 Flat washers ZU Ø3.
- The recommended Torque is 12 Kg/cm for M3 type screws and 10 Kg/cm for M2.5 type screws.

4. TIGHTENING ORDER

- See next figure: (measure in mm)



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