

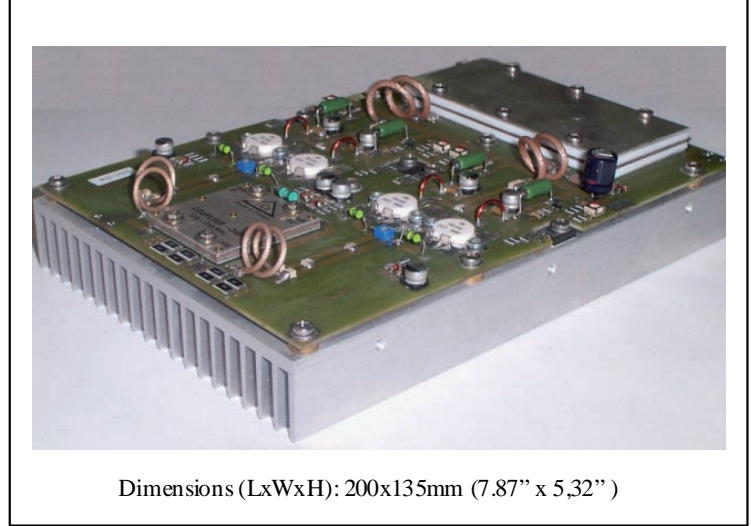


# VHFAMP60-R

## 60 W Class A VHF Amplifier

Designed for TV transposers and transmitters, this amplifier incorporates microstrip technology and single-ended MOSFETs working in push-pull configuration with gold metallization and diffused emitter ballast resistor to enhance ruggedness and reliability.

- 170 ÷ 230 MHz
- 28 Volts
- Input/Output 50 Ohm/50 Ohm
- Pout : 60 W
- Gain : 14 dB min
- Class A
- Devices: MS1277 or equivalent
- Mounted on Heatsink



Dimensions (LxWxH): 200x135mm (7.87" x 5.32")

This picture is a mere example, it does not bind the provided product

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

Symbol	Parameter	Value	Unit
V <sub>S</sub>	Voltage Supply	30	V dc
I <sub>S</sub>	Supply Current	12	A dc
Tstg	Storage Temperature Range	-30 + 85	°C
Tc	Flange Temperature RF Devices	-10 + 70	°C

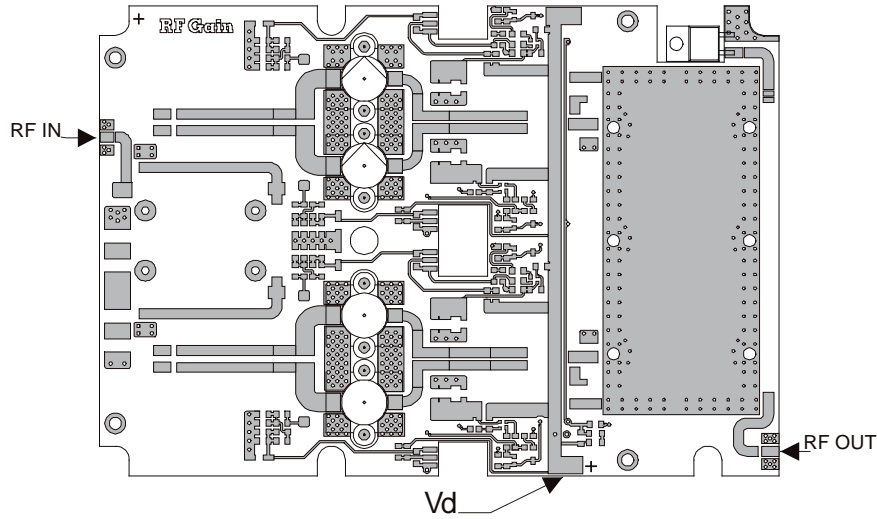
### ELECTRICAL SPECIFICATIONS (Base Plate T. = 45 °C, 50 Ohm loaded, Vd = 28 V)

Symbol	Parameter	Test Conditions	Value			Unit
			Min	Typ.	Max	
BW	Bandwidth		170		230	MHz
Gp	Power gain	P <sub>ref</sub> = 60 W	14	15		dB
Pout	Power output	Gain compression = 0.2dB Typ	60			W
Icc	Supply Current	P <sub>out</sub> = 60 W	-	10	-	A
Irl	Input return	P <sub>out</sub> = 60 W	18	20	-	dB
Orl	Output return	P <sub>out</sub> = 60 W	18	20	-	dB
	Load mismatch	P <sub>ref</sub> = 60 W ps, 3 tones, f = 230MHz, load VSWR = 3:1, all phase angles	No degradation in Pout			
Gr	Gain Flatness	P <sub>ref</sub> = 60W, BW: 170-230MHz		±	± 0.7	dB
Imd	Intermodulation Distortion - 3 tones	Vision carrier: -8 dB f = 230 MHz Sound carrier: -10 dB V <sub>S</sub> = 28V Croma carrier: -16 dB P <sub>ref</sub> = 60 W	-	-55	-	dBc



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## PC BOARD LAYOUT

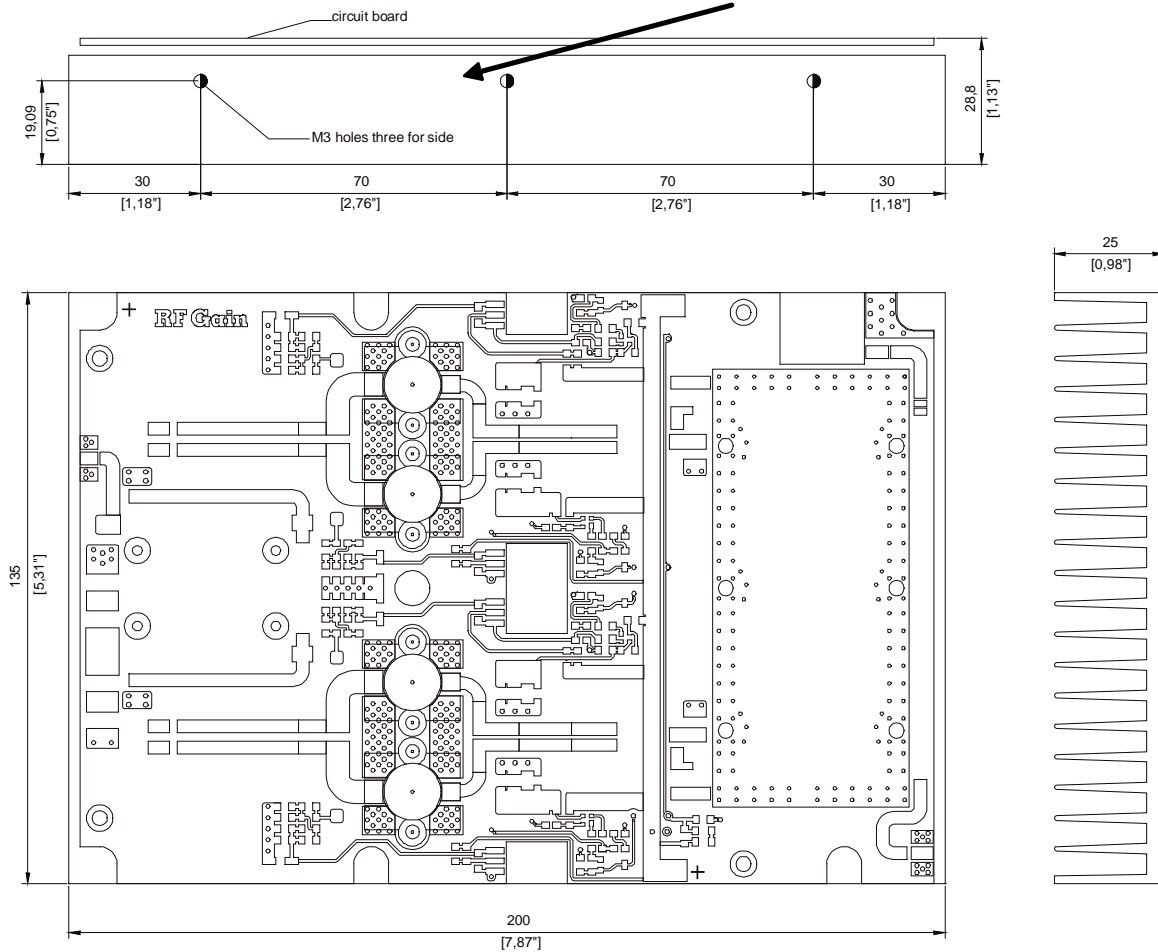


## HEATSINK MOUNTING/HARDWARE

### SCREWS

-M3 -Cross head screws

### Base Plate T. Point



Dimensions: mm[inch.]



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