



AMP4048 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class A/AB solid-state linear hybrid design
Instantaneous full X-Band coverage
Suitable for all single channel modulations standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	8.0 – 12.0 GHz	*Functional to 12.4GHz ¹
Power Output @ Psat	100 Watt Min	CW
Power Gain	50 dB Min	0 dBm or less for rated Pout
Power Gain Flatness	3 dB p-p Max	Constant input power
Input / Output Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	40dBm/Tone, Δ = 1MHz
Harmonics	<-20 dBc Typ	At rated output power
Spurious	-60 dBc Min	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	800 Watt Max	At rated Pout
Input Power Protection	+10 dBm Max	<10 Sec without damage
Load VSWR Protection	4 : 1 ²	Foldback @ preset limit

Note:

- 1 power may roll off from 12-12.4GHz by 1.0dB
- 2 Units with optional digital monitor and control, for basic units <1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50°C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport ³	

3 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U without handles
Weight	20 kg.	
RF Connectors In/Out	Type-N Female	Front or rear panel
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Safety Interlock (BNC Female on rear)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Safety Interlock, Open=STBY/Short=RFON	Optional Remote Bluetooth application

e

AMP4048 SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING

