



## AMP4076-LC SOLID STATE HIGH POWER AMPLIFIER

### FEATURES

- Class AB linear GaAsFET design
- Solid-state TWT replacement
- Instantaneous wide bandwidth
- Designed for EMI/RFI, lab, and general communication applications
- Suitable for all single channel modulation standards
- Small factor-factor, light weight rack mounted system
- Local LCD & remote flexible interfaces
- High reliability and ruggedness



### ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	40.0 - 47.0 GHz	
Power Output CW	80 Watts Nom	CW
Power Gain	48 dB Min	
Power Gain Flatness	6.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	38dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Max	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	1000 Watt Max	
Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	Auto Shutdown @ 5:1 load VSWR
Sample Port Coupling	-40 dB	Optional - 2.4mm-F

### ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing
Shock & Vibration	MIL-STD-810E	Designed to meet

### MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 266 x 600 mm	6U - Excluding handles
Weight	35 Kg. Nom	
RF Connectors In / Out / Sample Port	2.4 mm / WR-22	Rear or Front panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Air Cooled	
<b>EMI SERIES:</b> Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	

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## OUTLINE DRAWING

