

AMP4065LC-1 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all communication applications Small form factor, rack mounted system Class A/AB linear design High power advanced technology devices Instantaneous wide bandwidth Built-in protection circuits, forward RF Sample port High reliability and ruggedness with extensive monitoring Remote-control platforms included High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	18.0 - 26.5 GHz	
Power Output @ Psat	20 Watt Min / 25 Watt Typ	CW or Pulse
Power Gain	43 dB Min	0dBm or less for Rated Power
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Typ	Local or remote capable
Input Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	33dBm/Tone, $\Delta = 1$ MHz
Harmonics	-20 dBc Max	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	47 - 63Hz
Power Consumption	800 Watt Max	At rated Pout
Input Power Protection	+10 dBm Max ¹	
Load VSWR Protection	4 : 1: Max ² (100% protection)	Foldback @ preset limit
Sample Port Coupling (optional)	-40 dB Nom	2.92 mm K-Female

1 Units with optional digital monitor and control, for basic units <10 Sec without damage

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 750 mm	3U, excluding handles
Weight	24 kg.	
RF Connectors In / Out / Sample Port	2.92 mm-F / WR42 / 2.92mm-F	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling: Built in Quiet-Cool	Close circuit Air-liquid cooling	
OPTIONAL: Digital Monitor & Control (DMC)	Ethernet RJ-45 TCP/IP, RS422/485, USB	
FWD, REV, VSWR, GAIN, ALC, V & I, TEMP,	Optional GPIB Interface	IEEE rear panel
Optional Safety Interlock (INT)	Open=STBY/Short=RFON	BNC-F rear panel

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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-40dB, Type K-Female (2.92mm)	Front or rear panel
Option RRS: Reflected RF Sample	-40dB, Type K-Female (2.92mm)	Front or rear panel
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
Included CPM: Calibrated Power Monitoring	Offset correction entry for +/- 0.2dB	10-points standard ⁴
(With purchase of Option DMC)	accuracy	

4 Consult the factory if additional points are required.

OUTLINE DRAWING

SHOWN WITH LCD DIGITAL CONTROLLER

