

## AMP4066-LCP1 SOLID STATE HIGH POWER AMPLIFIER

## **FEATURES**

Designed for EMI/RFI, lab, and general 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	26.5 - 40.0 GHz	
Power Output @ Psat	>60 Watt Typ	CW or Pulse
Power Output @ P1dB	40 Watt Min	
Power Gain	48 dB Min	OdBm or less for rated Pout
Power Gain Flatness	4.0 dB p-p Typ	Constant input power
Gain Adjustment Range	20 dB Min	Local or Remote capable
Input Return Loss	-10 dB Max	
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	47-63Hz
Power Consumption	1800 Watt Max	At rated output
Input Power Protection	+10 dBm Max <sup>1</sup>	
Load VSWR Protection	4 : 1: Max²	Foldback @ preset limit
Sample Port Coupling	-50 dB Nom	2.92 mm K-Female

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

#### **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 <sup>3</sup>	

<sup>3</sup> MIL Spec available for quotation

## **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	2.9 mm-F / WR28 / 2.9mm-F	Front or rear panel
Interface Connector	9-Pin D-Sub	Rear panel
AC Power	IEC 60320-C14	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

<sup>2</sup> Units with optional digital monitor and control, for basic units <1 minute at rated Pout



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## **AVAILABLE SPECIAL OPTIONS**

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-40dB, Type K-Female	Front or rear panel
Option RRS: Reflected RF Sample	-40dB, Type K-Female	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 accuracy	15-points standard⁴
(With purchase of Option DMC)		

<sup>4</sup> Consult with factory if additional points would be required

#### OUTLINE DRAWING

## SHOWN WITH LCD DIGITAL CONTROLLER

