

AMP2056 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class AB linear LDMOS design
Instantaneous wide bandwidth
Suitable for all modulations standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	2 - 32 MHz	
Power Output	1000 Watt Min	CW
Power Gain	60 dB Min	
Power Gain Flatness	3.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	50dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	>20 dBc Typ	
Spurious	60 dBc Min	Non Harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	3000 Watt Max	At rated Pout
Max Input Power	+8 dBm	Without damage
Load VSWR Protection	5 : 1	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U
Weight	25 Kg. Max	
RF Connectors In/Out	Type-N Female	
AC Power	IEC 60320-C14	
I/O Connector	9-Pin D-Sub	See Table
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, GPIB Interface	Remote Bluetooth application

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D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1		N/A
2		N/A
3	DC Current Sensor	$I_D @ 20\text{mV}/100\text{mA Typ}$
4	Temp Sensor	$V_T @ 10\text{mV}/^\circ\text{C} + 500\text{mV Typ}$
5	Shutdown	TTL
6	DC Voltage Sensor	Internal PS voltage
7		N/A
8,9	GND	

OUTLINE DRAWING

