

AMP2120DB SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Ultra-broadband Hybrid design
Designed for broadband EMI/RFI, Lab, Comm. and EW applications
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness
Optional Front Display & monitoring functions



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification		Notes
Band Designation	A	B	
Operating Frequency Range	500 - 2500 MHz	2000 - 20000 MHz	
Power Output CW	20 Watt Min		CW
Power Output @ P1dB	10 Watt Min		
Power Gain	43 dB Min		
Power Gain Flatness	5.0 dB p-p Max		Constant input power
Input Return Loss	-10 dB Max		Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ		33dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ		At rated Pout
Non-Harmonic Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	100 - 240 VAC		
Power Consumption	300 Watt Max		At rated Pout
Input Power Protection	+3 dBm Max		<10 Sec without damage
Load VSWR Protection	5 : 1 Max		<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	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U, excluding handles
Weight	20 Kg.	
RF Connectors In/Out	Hi Freq. SMA-F / SMA-F	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	Controller will reduce output power by up to 1.5dB.

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OUTLINE DRAWING

