



AMP4053P SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Small and light weight bench top chassis
- Class AB linear GaN hybrid design
- X-Band medium power pulse applications
- Built-in protection circuits
- Universal voltage AC power supply
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	12.8 - 14.0 GHz	
Power Output @ Peak Pulse	28 Watt Min	Peak pulse
Pulse Characteristics	Width	
	12.5 - 25 μ S	
	Duty	
	25 %	
	PRF	
	10 - 20 KHz	
Power Gain	40 dB Min	
Operating Input Power	+4 dBm Nom	
Max Input Power	+20 dBm	Without damage
Power Gain Flatness	2.0 dB p-p Max	
Gain Variation Over Temp	3.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
Harmonics	>30 dBc Typ	At rated Pout
Non Harmonics Spurious	60 dBc Min	Non Harmonics
Noise Figure	10 dB Max	
Operating Voltage	100 - 240 VAC	50/60Hz
Power Consumption	350 Watt Max	At rated Pout
Load VSWR Protection	5 : 1	
Muting Speed	1 μ S Max	TTL
Cooling	Built-in forced air	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	Automatic shutdown
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation
Altitude	20,000 feet Min	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	15 x 7 x 17 Inch Max	Excluding handles
Weight	15 lb. Max.	
RF Connectors In/Out	SMA Female	
AC Power / Interface Connector	MIL-C-26482 / 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	



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OUTLINE DRAWING