



AMP4077 / AMP4077A SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Class AB linear LDMOS design
- Rack mounted system
- Instantaneous bandwidth
- Designed for FM frequency range high power applications
- Suitable for all single channel modulation standards
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50 Ω , 25 °C

Parameter	Specification		Notes
	AMP4077	AMP4077A	
Model	AMP4077	AMP4077A	
Operating Frequency Range	88 - 108 MHz		
Power Output	1500 Watt Min	3000 Watt Min	CW
Power Gain	60 dB Min	63 dB Min	
Power Gain Flatness	2.0 dB p-p Max		
Input Return Loss	-10 dB Max		Relative to 50 Ohm
3 rd Order Intercept Point (IP3)	+67 dBm Typ	+70 dBm Typ	@ -30dBc, Δ = 1MHz
Harmonics	-20 dBc Typ		
Spurious	-60 dBc Min		Non-harmonics
Operating Voltage	180 - 240 VAC	208 VAC, 3-phase	50-60 Hz
Power Consumption	5 kW Max	10 kW Max	At rated Pout
Input Power Protection	+8 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	4U	5U	
Weight	-	-	
RF Connectors In/Out	Type-N female / SC female		Front or Rear panel
AC Power	MS3102A22-22P		
I/O Connector	9-Pin D-Sub		
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 Optional GPIB Interface		

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OUTLINE DRAWING - 5U

