



AMP4077 / AMP4077A SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for FM frequency range high power applications
 Class AB linear LDMOS design
 Rack mounted system
 Instantaneous bandwidth
 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		

OUTLINE DRAWING - 5U

