



AMP2117B SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Rack mounted system
- Class AB linear LDMOS design
- Instantaneous wide bandwidth
- Designed for broadband EMI/RFI, Lab, Comm., and EW applications
- Suitable for Pulse, CW, AM, FM and all single Ch modulation standards
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes			
Operating Frequency Range	20 - 500 MHz				
Power Output	200 Watt Min	CW			
Power Gain	53 dB Min	Pin = 0dBm for rated Pout			
Power Gain Flatness	3.0 dB p-p Max	Constant input power			
Input / Output Return Loss	-10 dB Max	Relative to 50 Ohm			
2-Tone Intermodulation (IMD)	-30 dBc Typ	40dBm/Tone, Δ = 1MHz			
Harmonics	-20 dBc Typ	At rated output power			
Spurious	-60dBc Max	Non-harmonics			
Operating Voltage	100 - 240 VAC				
Power Consumption	700 Watt	At rated Pout			
Input Power Protection	+8 dBm Max	<10 Sec without damage			
Load VSWR Protection	∞ : 1	Auto shutdown @ 6:1 VSWR			
Pulse Characteristics	Width	Duty	PRF	Rise/Fall	Drop
	0.1 - 100μS	0 - 100%	0 - 100KHz	25nS Nom	0.5dB Max
Pulse to Pulse Jitter / Pulse Width Jitter / Delay	±5 nS / ±5 nS / 500 nS				
Pulse On / Off Ratio	80 dB Min				

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
Altitude	3000 meters Max	

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	Type-N Female	
Pulse Blanking	BNC Female	
Safety Interlock	BNC Female	
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control	Ethernet RJ-45 TCP/IP, RS422/485, USB	Optional
FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Optional GPIB Interface	Remote Bluetooth application
OPTIONAL: TTL Pulse Modulator	On / Off @ -80 dBm/Hz	

OUTLINE DRAWING

