



AMP2011A-TR SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Rack mounted system
- Class AB linear LDMOS design
- Instantaneous wide bandwidth
- Built-in T/R switch
- Suitable for all single channel modulation standards
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	20 - 100 MHz	
Power Output	300 Watt Min	CW
Power Gain	55 dB Min	
Power Gain Flatness	3.0 dB p-p Max	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	<-30 dBc Typ	45dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	<-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non Harmonics
Operating Voltage	100 - 240 VAC	Non-harmonics
Power Consumption	1500 Watt	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	$\infty : 1$	<1 Minute at rated Pout
Transmit / Receive Switch Characteristics	Speed	Transmitter must be off between Tx & Rx modes
	5 μs Max	
	Isolation	
	50 dB Min	
	Control	
	TTL	

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
Weight	20 Kg. Max	
RF Connectors Input / Tx / Rx	Type-N Female	Front or rear panel
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
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, USB Optional GPIB Interface	Remote Bluetooth application

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OUTLINE DRAWING

