

AMP2137 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	30 - 400 MHz	
Power Output	100 Watt Min / 125 Watt Typ	CW
Power Gain	40 dB Nom	
Input Power Range	+10 dBm to +45 dBm	
Gain Control	1 dB steps over -20 to +15dBm	
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	40dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	-20 dBc Typ	At rated output power
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 126 VAC, 45 - 420 Hz	Single phase
Power Consumption	300 Watt	At rated Pout
Load VSWR Protection	$\infty : 1$	<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-condensation
Shock	MIL-STD-901D operating $\pm 15g$, 11ms	$\pm 30g$ non-operating
Vibration	MIL-STD-167-1 Type 1	
EMI/EMC	MIL-STD-461C	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 88.5 x 560 mm	2U - Without handles
Weight	10 kg.	
RF Connectors In / Out	Type-N Female	
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
INCLUDED: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	ARC-210, Ethernet RJ-45 TCP/IP, RS422/485	

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OUTLINE DRAWING

