



AMP1155P-1 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Class AB linear balanced Push-Pull LDMOS design
- Instantaneous wide bandwidth
- High peak pulse power covering the VHF & UHF frequency range
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes
Operating Frequency Range	170 - 500 MHz			
Power Output	500 Watt Min			Peak pulse
Pulse Characteristics	Width	Duty	Droop	
	100 μ S	10 %	<1 dB	
Power Gain	57 dB Min			
Power Gain Flatness	3.0 dB p-p Max			Constant input power
Input / Output Return Loss	-10 dB Max			Relative to 50 Ohm
Harmonics 2 nd / 3 rd	-20 dBc Typ			At rated Pout
Spurious	-60 dBc Max			Non-harmonics
Operating Voltage	28 - 30 VDC			
Current Consumption	35 Amp Peak / 4 Amp Avg Max			At rated Pout
Input Power Protection	+5 dBm Max			<10 Sec without damage
Load VSWR Protection	∞ : 1			<1 minute at rated Pout
Turn On / Off Speed	5 μ Sec Max			

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	240 x 170 x 40 mm	Excluding connectors
Weight	-	
RF Connectors In/Out	SMA female / Type-N Female	
DC Power / Interface Connector	9 Pin Hybrid D-Sub	9W4
Cooling	External Heatsink	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	N/C	
2	N/C	
3	CURRENT SENSOR	I_b @10mV/100mA Typ
4	TEMP SENSOR	V_T @10mV/°C + 500mV Typ
5	SHUTDOWN	Enable = TTL Hi or Open, Disable = TTL Low or Short
A1, A2	VDD	28VDC
A3, A4	GND	Ground

AMP1155P-1 SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING

