HD35114
SOLID STATE MEDIUM POWER AMPLIFIER

FEATURES

Class A/AB linear design
Instantaneous ultra-broad Bandwidth
Suitable for all single channel modulation standards
Small form factor and light weight
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	0.5 - 2.0 GHz	
Power Output @ P1dB	30 dBm (1 Watt) Min	CW
Power Gain	41 dB Min	42 dB Typ
Power Gain Flatness	±1.5 dB p-p Max	
Input Return Loss	10 dB Typ	
2-Tone Intermodulation (IMD)	-30 dBc Typ	20dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated Pout
Noise Figure	3 dB Max	
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	15 VDC Nom / 0.9A	
Current Consumption	0.9 Amp Max	At rated Pout, 0.8A Typ
Input Power Protection	+10 dBm Max	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-40 to +60 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport[1]	

1 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	62.48 x 43.18 x 54.1 mm	Excluding connectors
Weight	950 gr. Typ	
RF Connectors In/Out	SMA female	
DC Power	Feed Thru	
Cooling	External Heatsink	Forced air required

PIN ASSIGNMENT

Pin	Function	Description
1	DC Voltage	+15VDC
2	GND	GND

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Specifications subject to change without notice. Specifications and drawings may vary with selected options.

OUTLINE DRAWING

