HD35112
SOLID STATE HIGH 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

Parameter	Specification	Notes
Operating Frequency Range	4.0 - 8.0 GHz	
Power Output P1dB	33 dBm (2 Watt) Min	CW
Power Gain	40 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	23dBm/Tone, Δ = 1MHz
Harmonics 2nd / 3rd	-15 dBc / -20 dBc Typ	At rated Pout
Noise Figure	6 dB Max	3.5 - 4dB Typ
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	15 VDC Nom / 2.0A	
Current Consumption	2.0 Amp Max	At rated Pout, 1.8A Typ
Input Power Protection	+10 dBm Max	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +70 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport[3]	

3 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

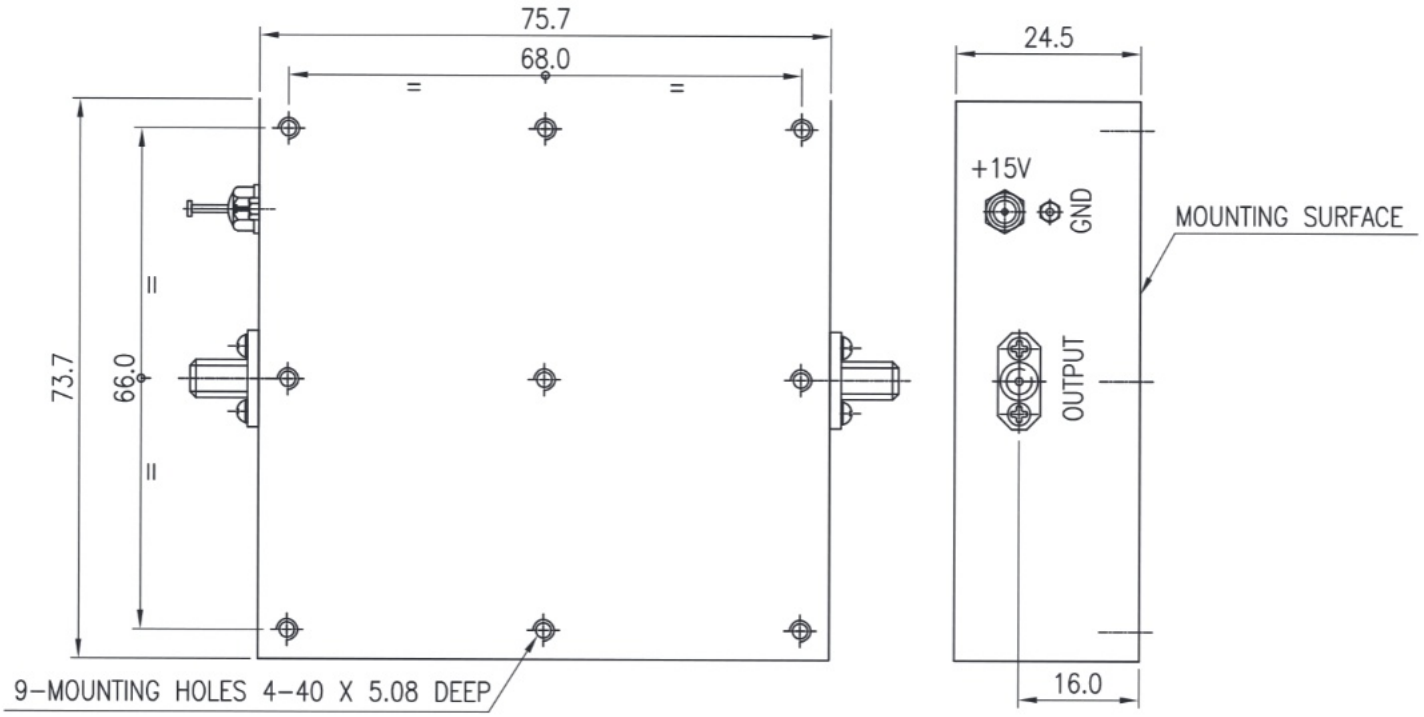
Parameter	Specification	Notes
Dimensions	75.7 x 73.7 x 24.5 mm	Excluding connectors
Weight	500 gr. Typ	
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	Feed Thru	
Cooling	External Heatsink	Forced air required

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



Dimensions in mm