HD35255
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class A/AB linear design
High power advanced technology devices
Design for X-Band high power linear applications
Suitable for all single channel modulation standards
Small form factor & light weight
Built-in monitoring & protection circuits
High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	9.0 - 10.0 GHz	
Power Output @ Psat	20 Watt Min / 25 Watt Typ	CW
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Power Gain	43 dB Min	0dBm or less for rated Pout
Input Return Loss	-10 dB Min	
Harmonics	-25dBc Max	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Noise Figure	10 dB Max	
Operating Voltage	40 VDC Nom	
Current Consumption	4 Amp Max	
Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +65 °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	100 x 90 x 27 mm	Excluding connectors
Weight	<1 kg Typ	
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	9-Pin D-Sub	
Cooling	External Heatsink	Forced air required

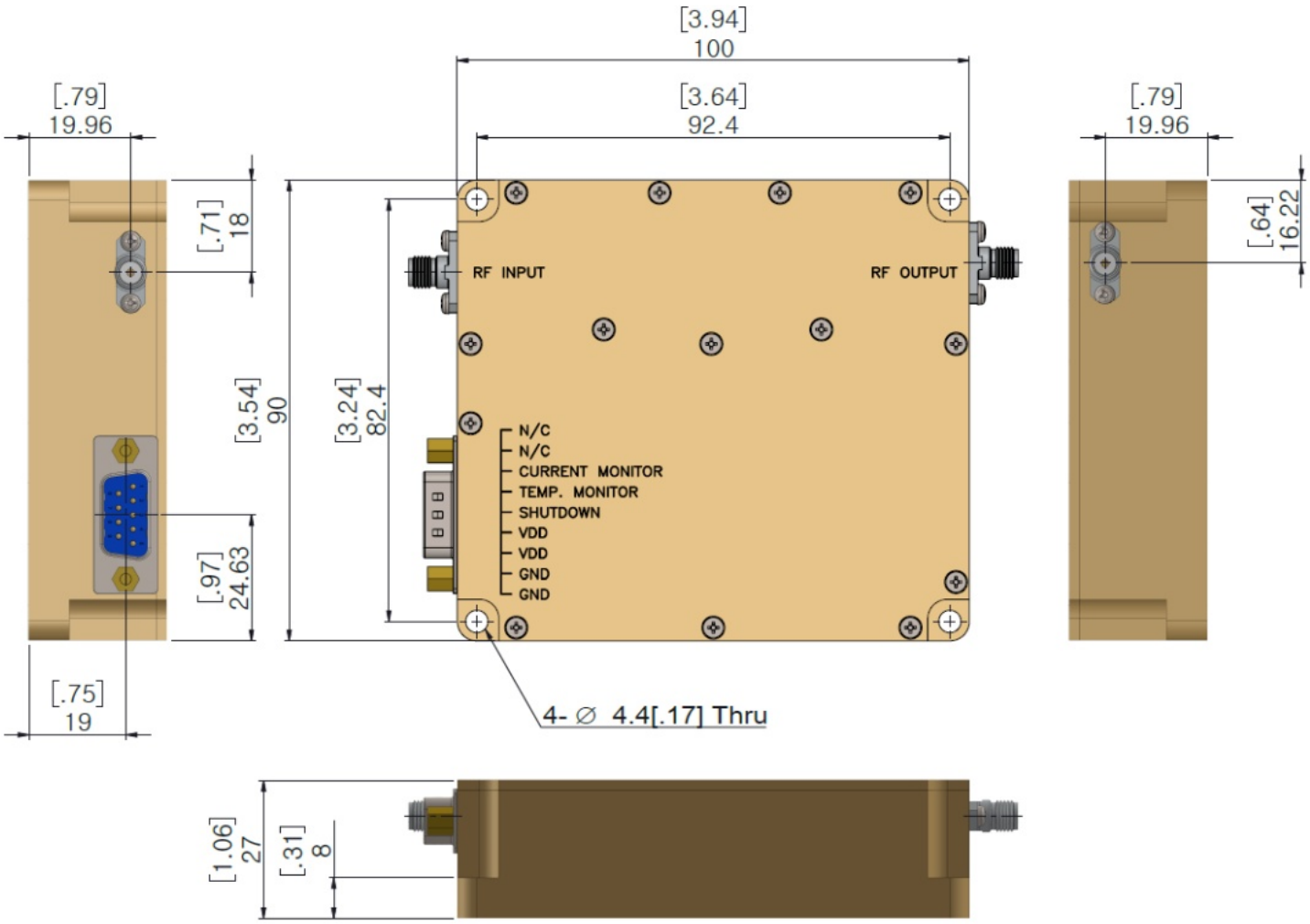
D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	N/A	N/A
2	N/A	N/A
3	CURRENT SENSOR	I_D@20mV/100mA Typ
4	TEMP SENSOR	V_T@10mV/°C + 500mV Typ
5	SHUTDOWN	Enable = TTL "High" (>3.2V) or Open / Disable = TTL "Low"
6, 7	VDD	40VDC
8, 9	GND	Ground

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

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OUTLINE DRAWING



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