HD30852
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear GaAsFET hybrid design
Instantaneous bandwidth
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification		Notes
Operating Frequency Range	24.0 - 25.0 GHz	25.0 - 31.0 GHz	
Power Output	4 Watt Typ	6 Watt Min	
Power Gain	38 dB Min		
Power Gain Flatness	6 dB p-p Max	4.0 dB p-p Max	Constant input power
Input Return Loss	9 dB Min / >10 dB Typ		Relative to 50 Ohm
Harmonics	<-20 dBc Typ		At rated Pout
Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	20 VDC Nom		
Current Consumption	5 Amp Max / 4 Amp Typ		At rated Pout
Input Power Protection	+3 dBm Max		<10 sec without damage
Load VSWR Protection	5 : 1		<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	5 to 95 %	Non-condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	110 x 110 x 27 mm	Excluding connectors
Weight	0.7 Kg	
RF Connectors In/Out	SMA K Type female	
DC Power / Interface Connector	9-Pin D-Sub	
Cooling	External Heatsink	Forced air required

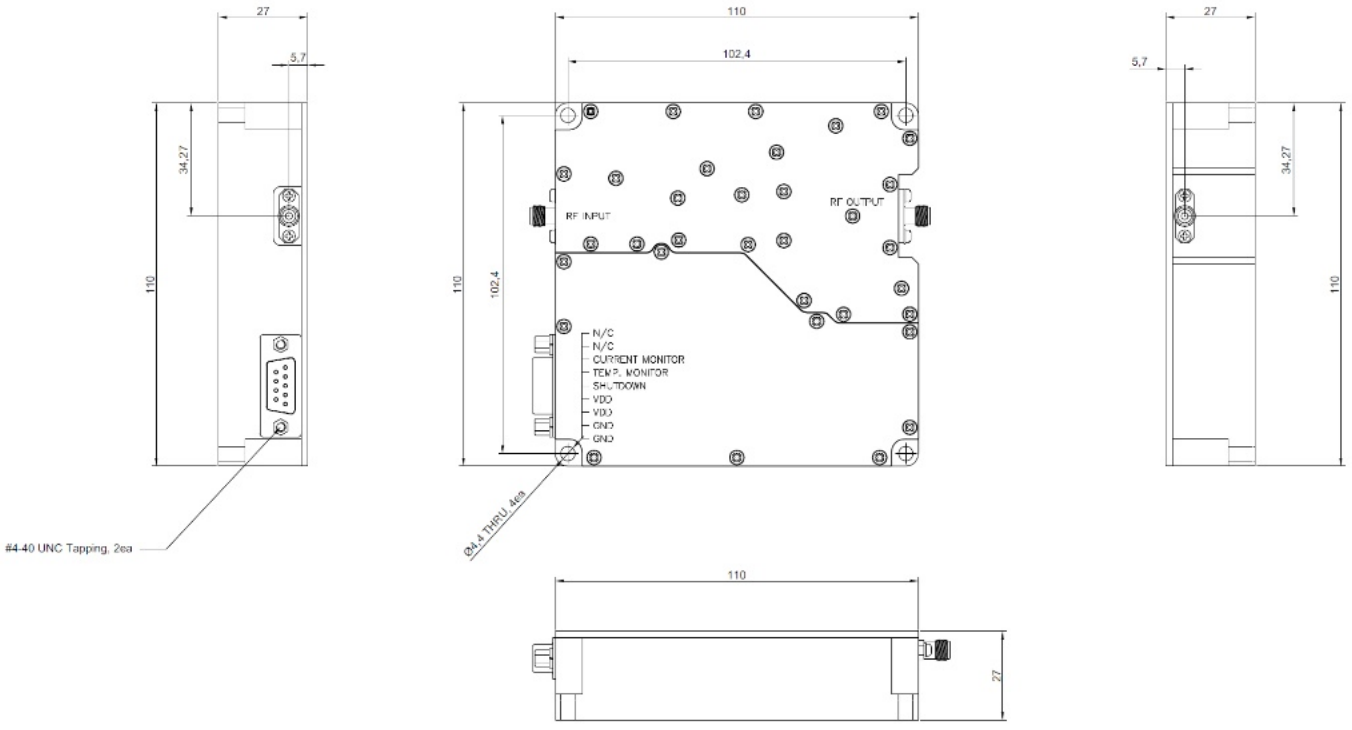
D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	N/C	Reserved
2	N/C	Reserved
3	CURRENT SENSOR	I_D@20mV/100mA Typ
4	TEMP SENSOR	V_T@10mV/°C + 500mV Typ
5	SHUTDOWN	TTL
6, 7	VDD	20VDC
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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