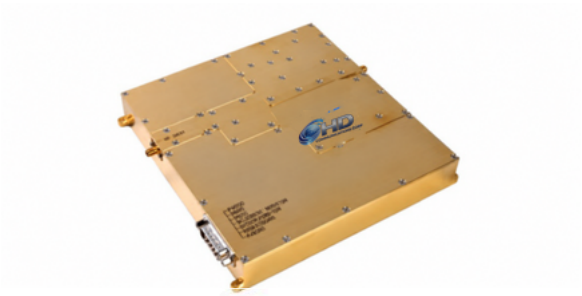
HD35253
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear GaAsFET design
Designed for narrow bandwidth Ka-Band applications
Suitable for all single channel modulation standards
Small form factor, light weight
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	25 GHz ±100 MHz	
Power Output @ Psat	10 Watt Typ	CW
Power Output @ P1dB	8 Watt Min	
Power Gain	40 dB Min	0dBm or less for rated Pout
Power Gain Flatness	1.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Min	
Harmonics	<-30 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	9 VDC Nom	
Current Consumption	25 Amp Typ	At rated Pout
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	5 to 95 %	Non-condensing
Altitude	3000 meters Max	
Shock & Vibration	Normal transport	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	150 x 150 x 22 mm	Excluding connectors
Weight		
RF Connectors In/Out	K-Type female	
DC Power / Interface Connector	7-Pin Hybrid D-Sub	
Cooling	External Heatsink	Forced air required

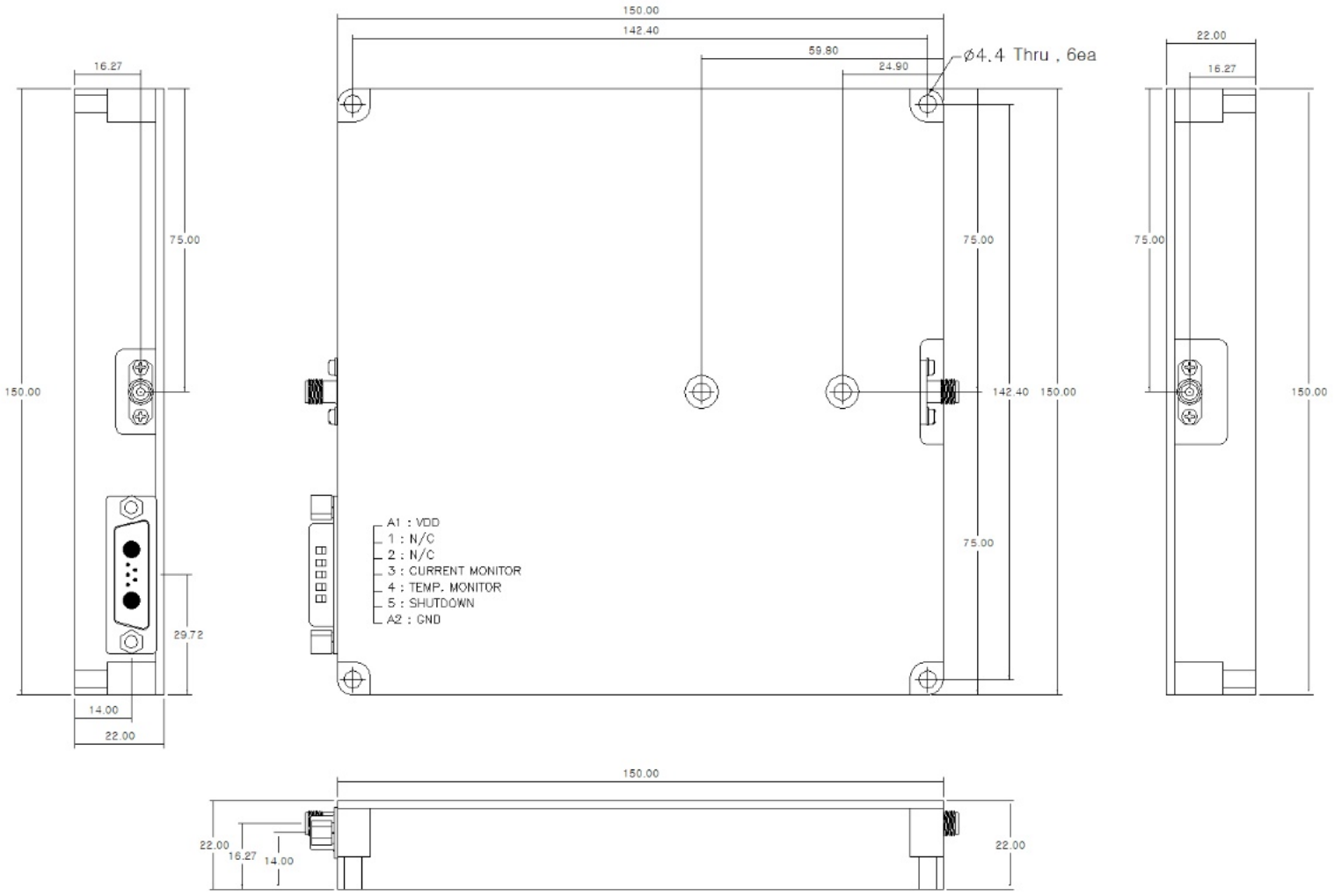
D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	FWD	N/C
2	REV	N/C
3	CURRENT SENSOR	I_D@20mV/100mA Typ
4	TEMP SENSOR	V_T@10mV/°C + 500mV Typ
5	SHUTDOWN	Enable = Open or TTL "High" (>3.2V) - Disable = TTL "Low" (0V)
6, 7	VDD	9VDC
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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