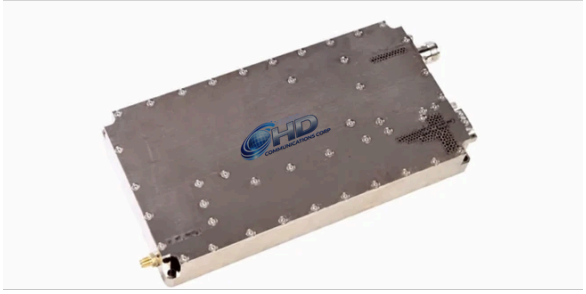
HD35098
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	20 - 520 MHz	
Power Output @ Psat CW	100 Watt Min 70 Watt Min / 80 Watt Typ	@28VDC @24VDC
Power Output @ P1dB	50 Watt Min 35 Watt Min	@28VDC @24VDC
Power Gain	50 dB Min	
Power Gain Flatness	3.0 dB p-p Max	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	40dBm/Tone, Δ = 1MHz
Harmonics	2nd <-35dBc Typ 3rd <-15dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	24 - 30 VDC Operational	Operational
DC Input Range	+21 to +31 VDC	No damage
Current Consumption	9 Amp Max @ 28 VDC 10 Amp Max @ 24 VDC	At rated Pout
Input Power Protection	+13 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<1 minute at rated Pout
Turn On / Off Speed	5 µSec Max	Optional

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-30 to +75 °C	Extended Temp range
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	200 x 100 x 27 mm	Excluding connectors
Weight	950 gr.	
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	9-Pin D-Sub	
Cooling	External Heatsink	Forced air required

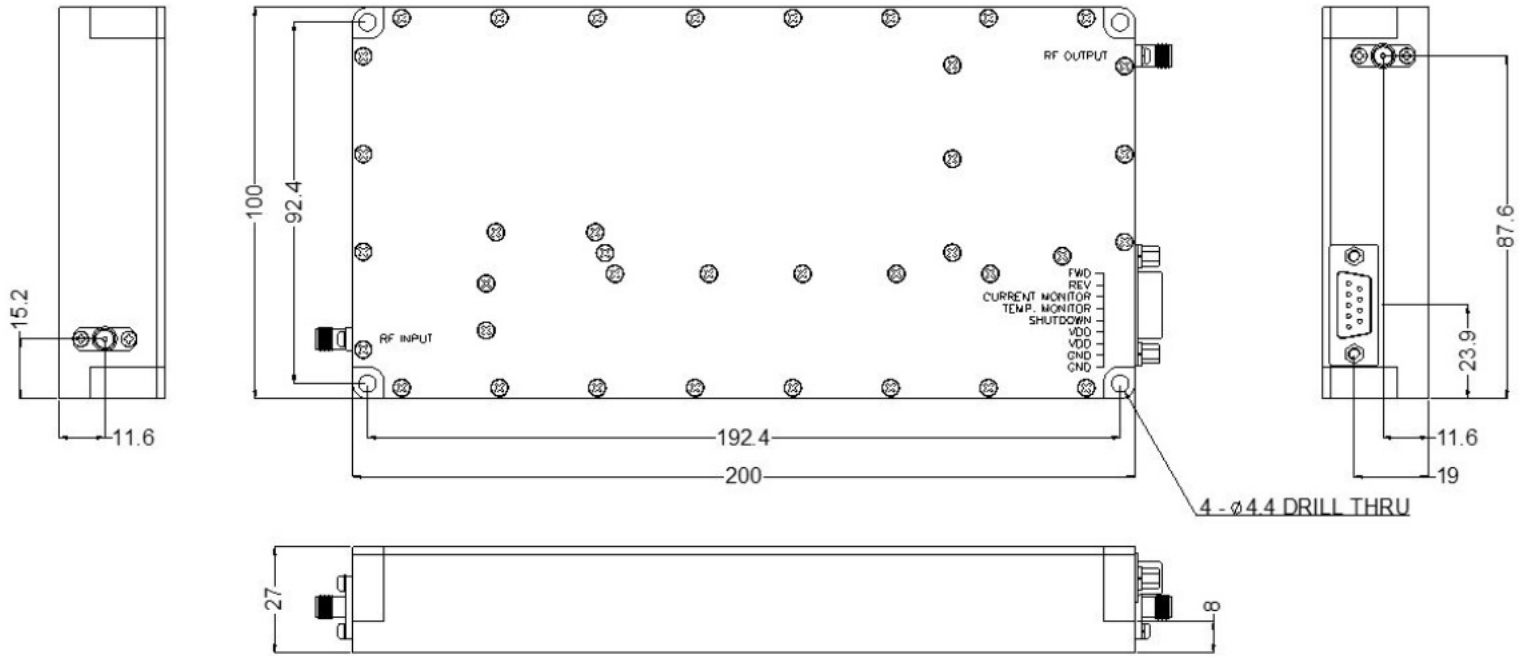
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Specifications subject to change without notice. Specifications and drawings may vary with selected options.

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D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	FWD	TTL level "Hi" @ Pout=5Watt
2	VVA	Option-103
3	CURRENT SENSOR	I_D@20mV/100mA Typ
4	TEMP SENSOR	TTL "Hi" @ >77°C
5	SHUTDOWN	Enable = TTL High or Open; Disable = TTL Low or Short
6, 7	VDD	28VDC
8, 9	GND	Ground

OUTLINE DRAWING



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