HD30360
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

PRELIMINARY

FEATURES

Class AB linear GaN design
Instantaneous wide bandwidth
Suitable for all modulations standards
Small form factor & light weight
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	2.2 - 6.0 GHz	
Power Output	100 Watt Min	2.0 - 2.2GHz, 50W
Power Output @ P1dB	TBD Watt Min	CW
Power Gain	50 dB Min	
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Gain Variation Over Temperature	±2.0 dB Max	Rated case temperature
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	40 dBm/Tone, Δ = 1 MHz
Harmonics	>20 dBc Typ	At rated Pout
Non Harmonics Spurious	>60 dBc	
Operating Voltage	28 - 30VDC	
Power Consumption	620 Watt Max	At rated Pout
Max Input Power	+8 dBm	Without damage
Load VSWR Protection	∞ : 1	
Turn On / Off Speed	5 µSec Max	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	360 x 220 x 27 mm	Excluding Connectors
Weight	3.1Kg.	
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	7-Pin Hybrid D-Sub	
Cooling	External Heatsink	Forced air required

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D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	FWD	OPTION 101 - Forward power detect
2	VVA	OPTION 103 - Variable Voltage Attenuator
3	CURRENT SENSOR	Analog
4	TEMP SENSOR	Analog
5	SHUTDOWN	TTL
A1	VDD	28 VDC
A2	GND	Ground

OUTLINE DRAWING - OPTION 01

OPTION ORDERING INFORMATION:

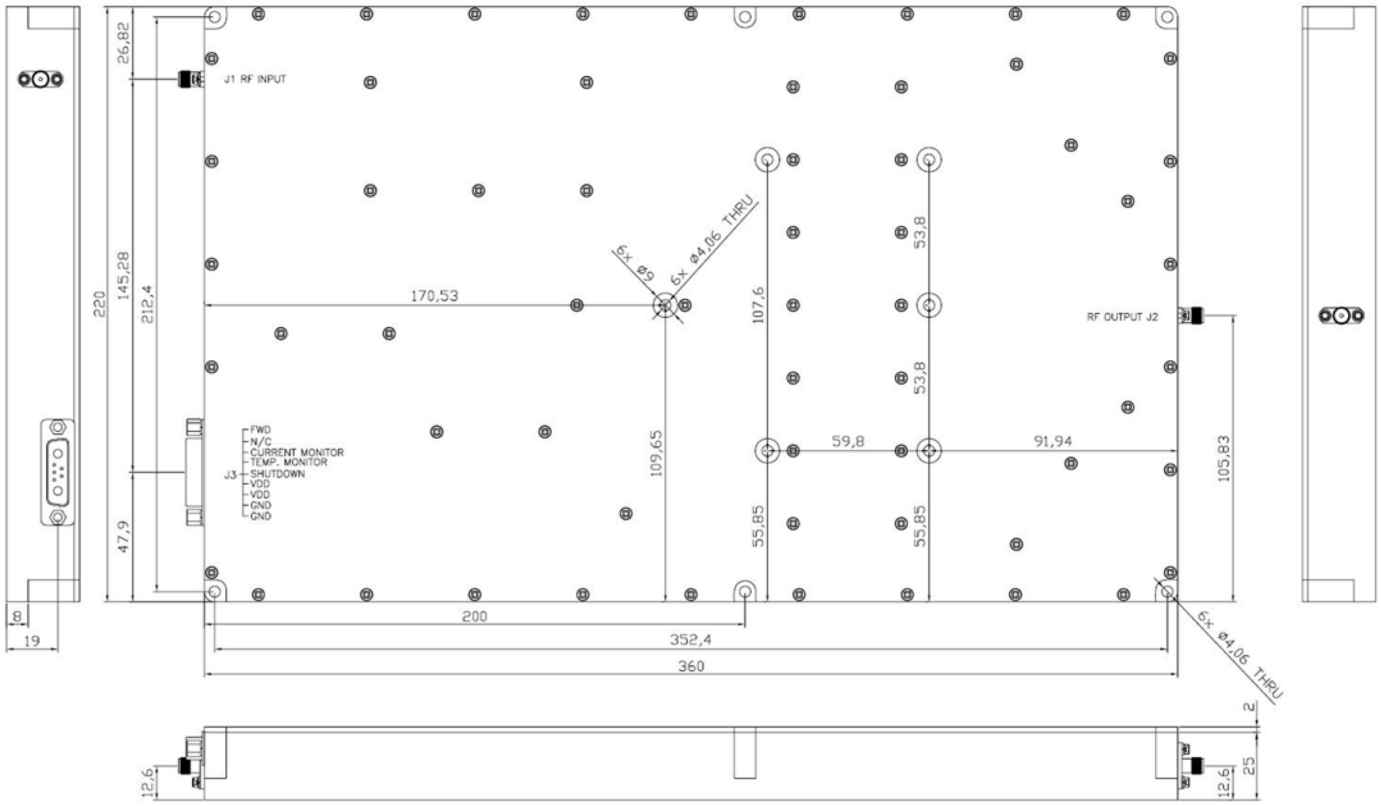
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Outline Drawing



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