HD32143
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mount system
Class AB linear LDMOS design
Instantaneous bandwidth
Suitable for all single channel modulations standards
Ethernet LAN uP interface
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter		Specification			Notes	
Operating Frequency Range		1.6 - 1.7 GHz				
Power Output		50 Watt Typ			CW	
Power Output @ P1dB		35 Watt Min			CW	
Small Signal Gain		48 dB Min				
Small Signal Gain Flatness		+1.5 dB				
Input Return Loss		10 dB Min			Relative to 50 Ohm	
2-Tone Intermodulation (IMD / IP3)		-30 dBc / +56 dBm Typ			41dBm/Tone, Δ = 1MHz	
Harmonics		-20 dBc Typ			At rated output power	
Non Harmonics Spurious		-60 dBc Max				
Phase Noise	Offset Frequency	**10 Hz**	**30 Hz**	**300 Hz**	**10 KHz**	**20 -100 KHz**
	Phase Noise dBc/Hz	-45 dBc	-60 dBc	-80 dBc	-80 dBc	-90 dBc
Operating Voltage		100 - 240 VAC			Single phase	
Power Consumption		300 Watt Max			At Rated Pout	
Max Input Power		+8 dBm			Without damage	
Load VSWR Protection		∞ : 1				

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensing

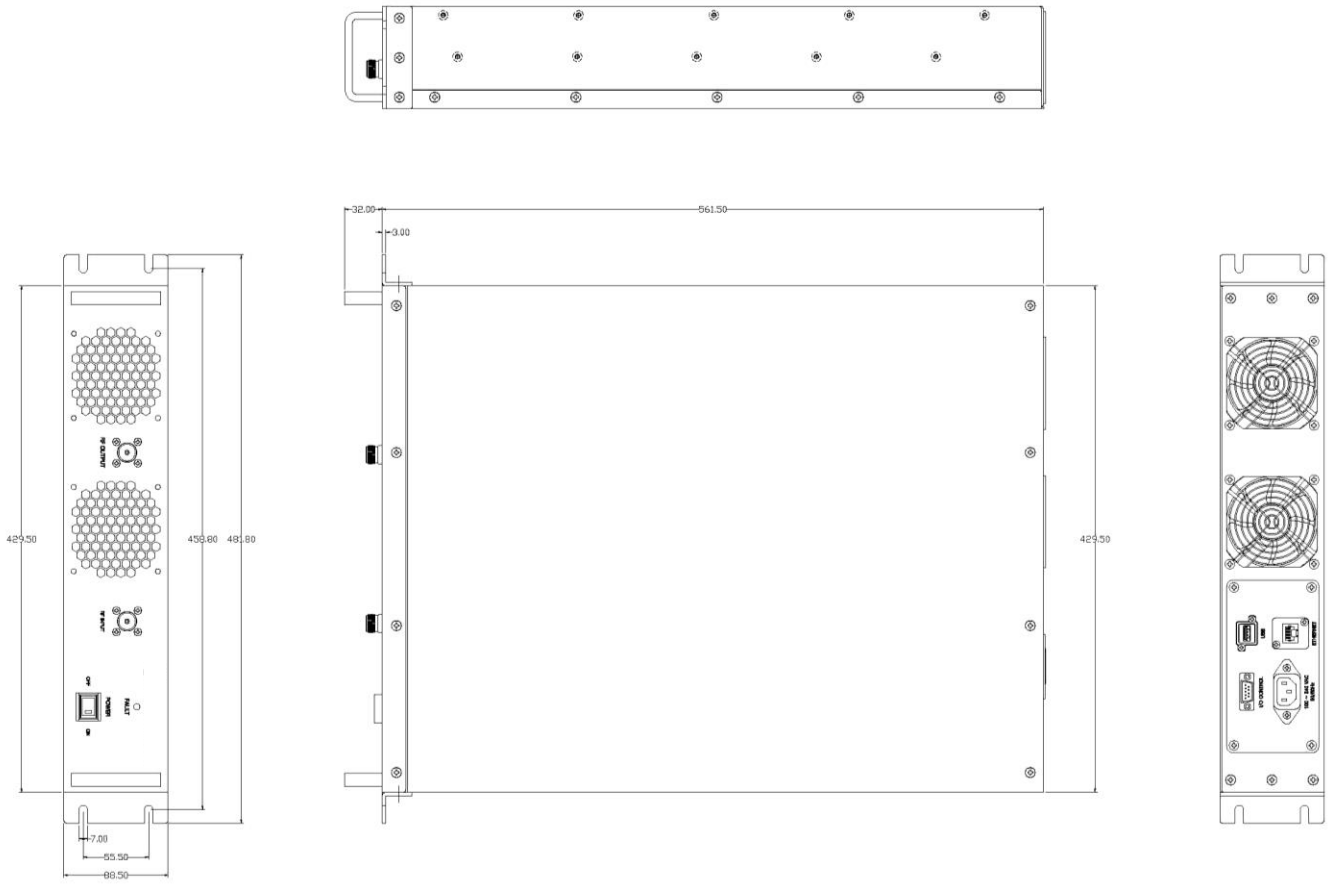
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 88 x 562 mm	2U
Weight	10 kg.	
RF Connectors In / Out	Type-N Female	
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
Digital Interface& Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	**Ethernet RJ-45 TCP/IP**, RS422/485 Optional GPIB Interface	Optional Remote Bluetooth application

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OUTLINE DRAWING



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