HD Communications Corp.

HD32105
SOLID STATE HIGH POWER AMPLIFIERS

FEATURES

High frequency, high power 3-Bands
3 inputs and 3 outputs,
3 separate On/Off switches, 3 manual gain adjust dials
Rack mount chassis
Suitable for all single channel modulations standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

MODEL		Band A	Band B	Band C
PARAMETERS	LIMIT	SPECIFICATIONS		
Frequency Range	Min	18 - 26.5 GHz	26.5 - 31.5 GHz	31.5 - 40 GHz
Saturated Output Power CW	Min	10 Watt	8 Watt	8 Watt
Output Power @ P1dB CW	Typ	8 Watt	6 - 8 Watt	7 Watt
Small Signal Gain	Min	40 dB		
Gain Adjustment Range	Min	15 dB		
Gain Flatness	Max	6 dB p-p		
Input Return Loss	Min	10 dB		
Noise Figure	Min	10 dB		
Harmonics	Max	-20 dBc		
Non-harmonics Spurious	Max	-60dBc		
Operating Voltage	Nom	100 - 240 VAC		
AC Power Consumption	Max	600 Watt		
Max Input Power	Max	0 dBm <10 Sec without damage		
Load VSWR Protection	Max	5 : 1 <1 Minute @ rated Pout		

ENVIRONMENTAL CHARACTERISTICS

PARAMETERS	SPECIFICATIONS
Operating Ambient Temperature	0 to +50 °C
Storage Temperature	-20 to +75 °C
Relative Humidity	5 to 95 % Non-Condensing

MECHANICAL SPECIFICATIONS

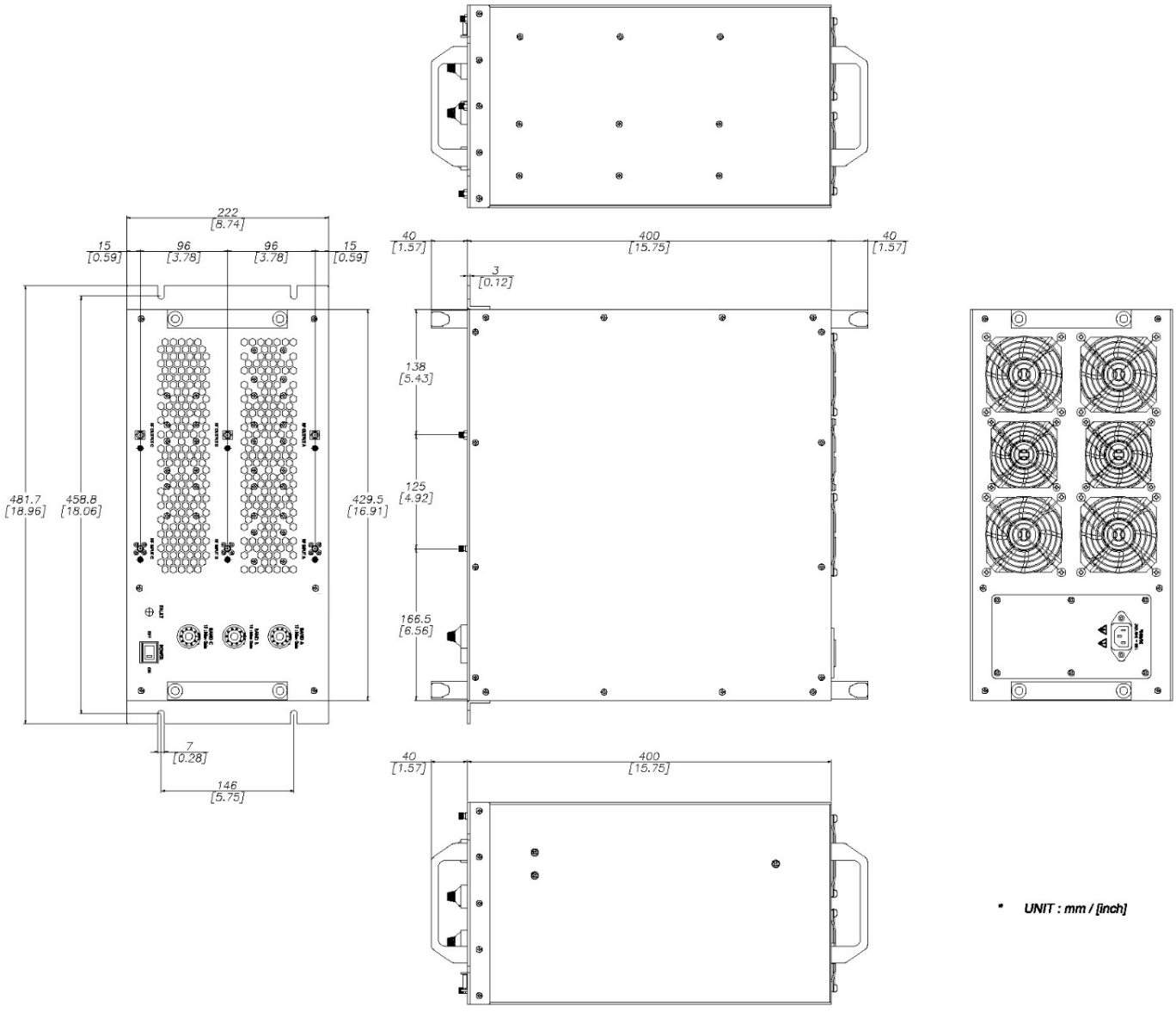
PARAMETERS	SPECIFICATIONS		
Dimensions W x H x D	482 x 222 x 400 mm (Short 5U Rack)		
Weight	25 kg.		
RF Connectors - Standard Configuration	Front Panel - 2.92 mm SMA female		
Option Connectors In - Front /Out - Rear	2.92 mm SMA / WG28	2.92 mm SMA / WG34	2.92 mm SMA / WR42
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub		
Cooling	Built in Fan Cooling		

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OUTLINE DRAWING - STANDARD CONFIGURATION



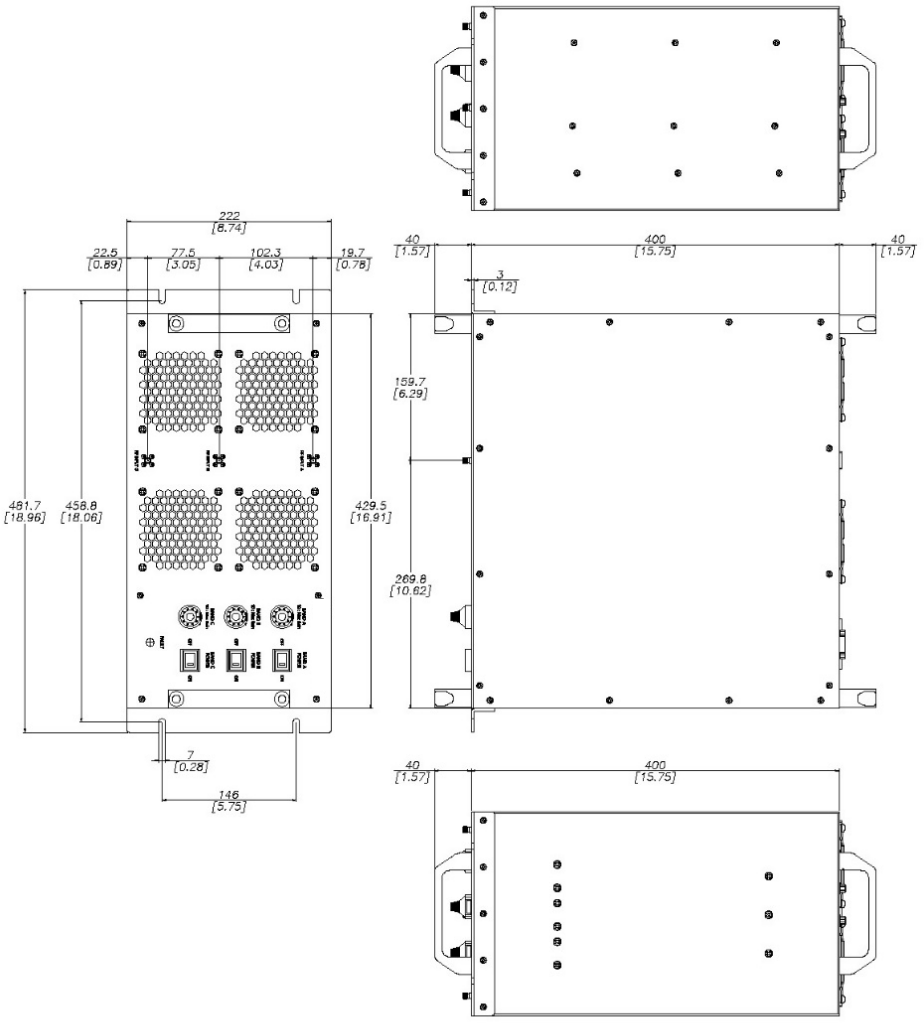
* UNIT : mm / [inch]

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OUTLINE DRAWING - SHOWN WITH OPTION WAVEGUIDE OUTPUTS



- *UNIT : mm / [inch]*
- D-SUB Connector Pin Assignment(Control A, B, C)
  - 1 : Current Monitor
  - 2 : Temp. Monitor
  - 3 : Shutdown
  - 4, 5, 6, 7, 8 : N/C
  - 9 : GND
- Band A, B, C Input Connector : 2.92mm(K) Female
- Band A Output Connector : WR-28 Waveguide
- Band B Output Connector : WR-34 Waveguide
- Band C Output Connector : WR-42 Waveguide

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