HD Communications Corp.

HD32104
SOLID STATE PULSE HIGH POWER AMPLIFIER

FEATURES

Small form factor rack mounted system
High power LDMOS pulse devices
Instantaneous bandwidth
Suitable for linear pulse applications
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes
Operating Frequency Range	2.7 - 2.9 GHz			
Peak Output Power	1000 Watt Min			@ 10 % Duty Cycle
Output Power Flatness	2 dB p-p Max			±1dB
Input Power	0 dBm Nom			
Saturated Gain	60 dB Min			
Pulse Characteristics	**Width**	**Duty**	**PRF**	
	200 µS Max	10 % Max	500 Hz ±5%	
Rise / Fall Time	<150 nSec			
Droop	<0.8 dB			
Input / Output VSWR	1.5 : 1			Relative to 50 Ohm
Harmonics	-30 dBc Max			At rated Output Power
Spurious	-65 dBc Max			
Load VSWR	Output Short or Open			No damage
AC Input Voltage	180 - 260 VAC, 50/60 Hz			
Efficiency	20 % Typical			

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50°C	
Storage Temperature	-20 to +70°C	
Relative Humidity	95% @ 40°C	
Altitude	5160 m	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	420 x 400 x 560 mm	9U without handles & WG
Weight	25 Kg. Max	
RF Connectors In/Out	Type-N Female / CPR284F Waveguide	Rear panel
Driver Input Connector	BNC Female	Rear Panel
RF Output Monitoring	SMA Female	50dB ±1dB coupled Port
AC Power	IEC 60320-C14	Rear panel
AC Power Switch	Circuit Breaker - LED	Front panel
Interface Connector	9-Pin D-Sub	
Cooling	Built in Fan Cooling	

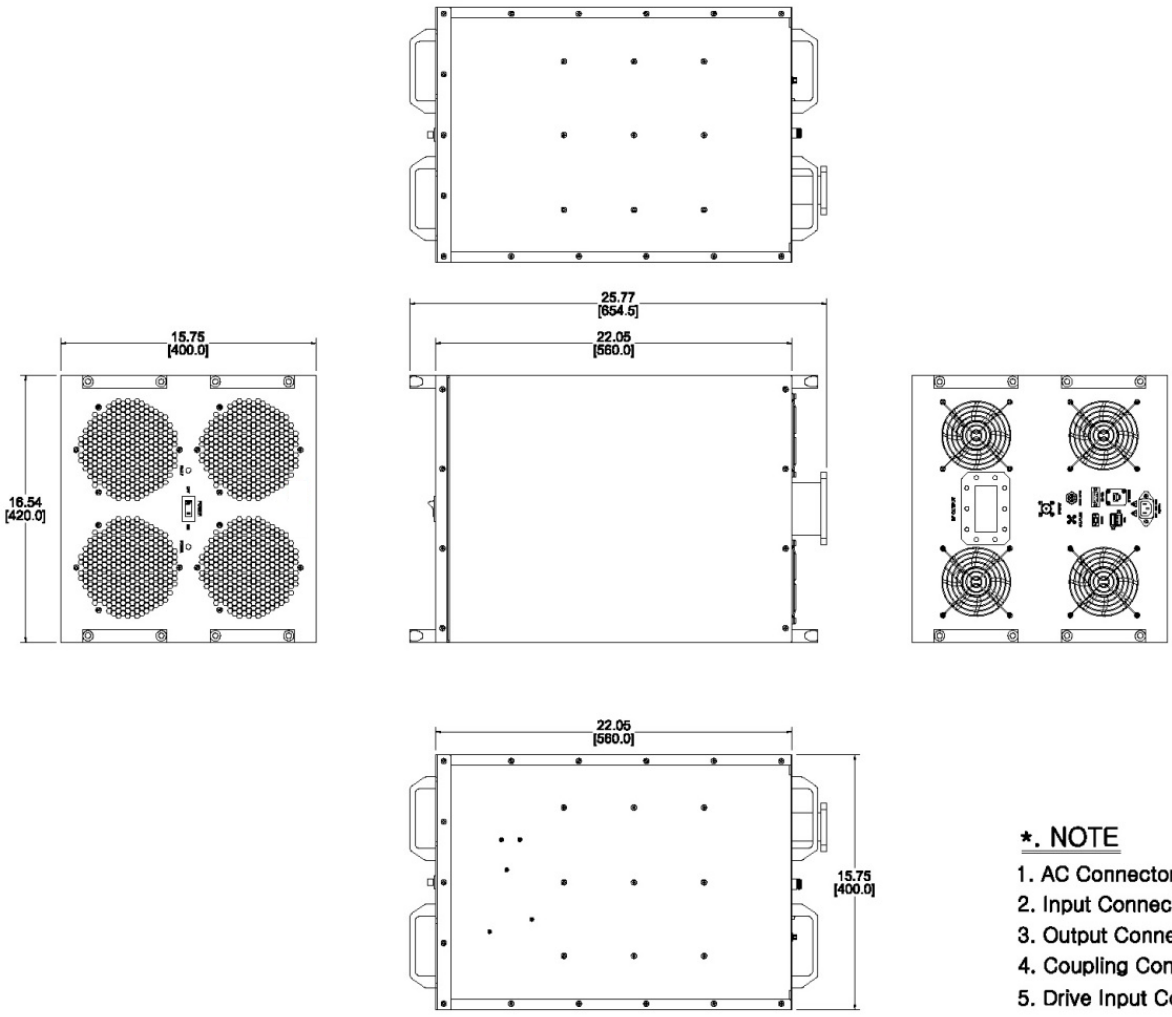
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PROTECTIONS

Parameter	Specification	Notes
General Protection	AC overload, Over temperature, Load VSWR	
Pulse protection	Pulse width, Duty cycle	

OUTLINE DRAWING



*. NOTE

1. AC Connector : IEC 60320-C14
2. Input Connector : N type Female
3. Output Connector : WR284 Waveguide
4. Coupling Connector : SMA Female
5. Drive Input Connector : BNC Female

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