



PA01265-4W DUAL BAND 1-18GHz, 18-26.5GHz 37dB SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class AB linear GaN design
Dual Band, manual Relay Switching
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness
Integrated logic circuit to prevent switching while input RF signal is present.



ELECTRICAL SPECIFICATIONS

Parameter	Specification		Notes
Band	Band A	Band B	
Operating Frequency Range by Band	1-18 GHz	18-26.5GHz	
Power Output CW Band A / Band B	4 Watt Min	5 Watt Min	CW
Power Gain	37 dB Min		
Power Gain Flatness	5.0 dB p-p Max	4.0 dB p-p Max	Constant input power
Input Return Loss	10 dB Min		Relative to 50 Ohm
2-Tone Intermodulation (IMD) Band A / Band B	-30 dBc Typ		30dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	-20 dBc Typ		At rated Pout
Non Harmonic Spurious	-60 dBc Min		Non Harmonics
Operating Voltage	100 - 240 VAC		
Power Consumption	200 Watt Max		At rated Pout
Max Input Power	+3 dBm		Without damage
Load VSWR Protection	5 : 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 Condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 88 x 562 mm	2U, excluding handles
Weight	10 kg.	
RF Connectors In/Out	Type-N Female	Front Panel Standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	

Applications

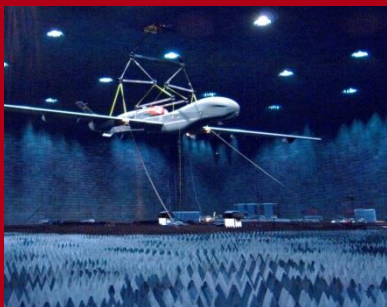
Test and Measurement
Electronic Warfare
Radar
Broadband Jamming
Public Safety

Quality & Certifications

AS9100 Rev C
ISO9001:2008

Global Service Centers

Orlando, USA
Noida, India



MtronPTI SSHPA Products: <http://www.mtronpti.com>

mtronpti.com

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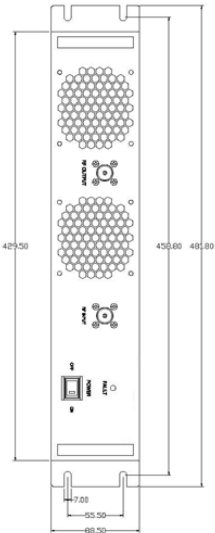
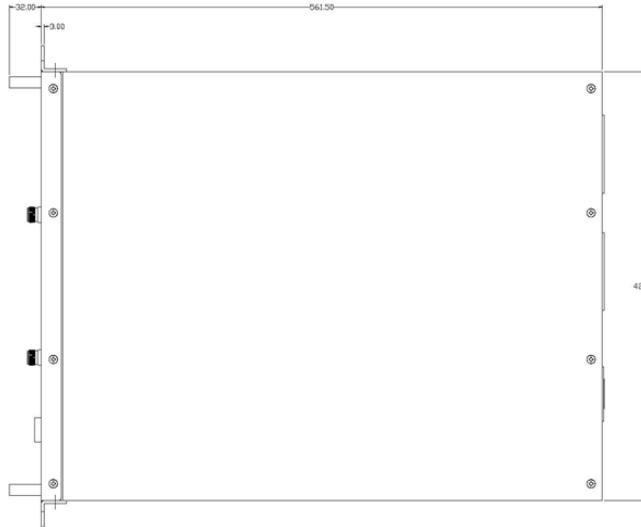
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Experienced

MtronPTI continues nearly fifty years of service to aerospace, defense communication and control, Internet and mobile infrastructure, lab and field instrumentation EMs.

Vertically integrated

MtronPTI provides High reliability, High Power Solid State Power Amplifier solutions for demanding applications. Our design and manufacturing capabilities cover 50KHz to 47GHz frequency range with power levels of 1W to 4kW for CW & Pulse application modules and over 10kW for such systems. Synergy between our engineering manufacturing– from concept, simulation, electrical & mechanical layouts to assembly & testing capabilities allow for quick engineering & manufacturing responses to customer requests.

One-on-one technical relationships

Each project is unique in design, environmental, schedule and cost requirements. **MtronPTI** engineers work with your designers to select the best approach. Six sigma and AS9100 Rev C quality systems ensure reliable solutions.

Long term support

MtronPTI uses Rapid Process Feedback, Lean Manufacturing and Demand Flow Technology for right product, right time, on specification. **MtronPTI** also manages the supply chain: aligning forecasts, qualifying purchased component suppliers and working with distributors, hubs and portals to make sure every time the production line reaches for an **MtronPTI** part, it'll be there.

