

## PA92381 0.5 – 2.0GHz, 250W 54dB SOLID STATE HIGH POWER AMPLIFIER SYSTEM

### FEATURES

Rack mounted system  
Class AB solid-state linear design  
Instantaneous wide bandwidth  
Suitable for all modulations standards  
Built-in protection circuits  
High reliability and ruggedness



### ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	500 - 2000 MHz Min	
Power Output	250 Watt Min	CW
Power Gain	54 dB Min	
Nominal Input Power	0dBm	
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	Relative to 50 Ohm
3rd Order Intercept	+59 dBm Typ	
Harmonics	20 dBc Typ	At rated Pout
Non Harmonics Spurious	60 dBc Min	
Operating Voltage	100 - 240 VAC	
AC Power Consumption	1600 Watt Max	At rated Pout
Max Input Power	+10 dBm	Without damage
Load VSWR Protection	$\infty : 1$	

### 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
Shock and Vibrations	Normal truck transport	
Altitude	10,000 feet Min	

### MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U, excluding handles
Weight	20 kg.	
RF Connectors In / Out	Type-N Female	Front Panel Standard
Forward / Reflected Sample Ports	Type-N Female	
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
Digital Monitor & Control	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	Remote Bluetooth application Pulse operation in manual mode only
FWD, REV, VSWR, GAIN, ALC, V & I, TEMP		

### Applications

Test and Measurement

Electronic Warfare

Radar

Broadband Jamming

Public Safety

### Quality & Certifications

AS9100 Rev C

ISO9001:2008





# Connect with MtronPTI

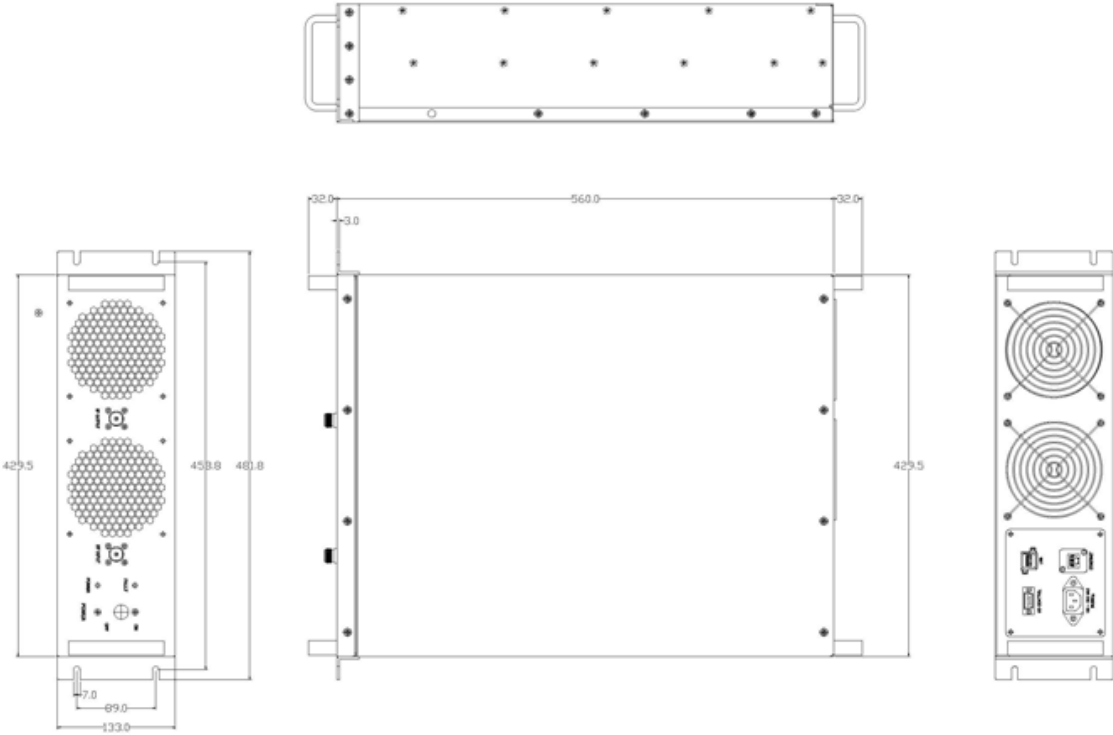
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#### Experienced

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

#### Vertically integrated

MtronPTI provides High reliability, High Power Solid State Power Amplifier and TWT solutions for demanding applications. Our design and manufacturing capabilities cover 250KHz 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.

