

Applications

Test and Measurement Electronic Warfare Radar Broadband Jamming Public Safety

Quality & Certifications

AS9100 Rev C ISO9001:2008 Mil-STD-790 Certificate RoHS compliance Conflict Minerals Compliant



PA0023-100W 20 - 3000MHz Dual Band SSPA System

FEATURES

Rack mounted system Ultra-broadband, class AB linear LDMOS and GaN design

Dual Band, One input - Two Outputs

Suitable for all single channel modulation standards Built-in protection circuits High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification		Notes
Band Designation	A	В	
Operating Frequency Range	20 - 1000 MHz	1000 - 3000 MHz	
Power Output CW.	100 Watt Min		CW
Power Gain	50 dB Min		
Power Gain Flatness	4.0 dB p-p Max		Constant input power
Input Return Loss	10 dB Min		Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ		40 dBm/Tone, $\Delta = 1$ MHz
Harmonics	-20 dBc Typ		At rated Pout
Non-Harmonic Spurious	-60 dBc Max		
Operating Voltage	100 -	240 VAC	
Power Consumption	1000	Watt Max	At rated Pout
Max Input Power	+8 dBm		Without damage
Load VSWR Protection		10:1	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case 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	483 x 178 x 560 mm	4U, excluding handles
Weight	30 Kg. Max	
RF Connectors In/Out A /	Type-N Female	Front Panel Standard
Out B		
AC Power / Interface	IEC 60320-C14 / 9-Pin D-Sub	
Connector		
Cooling	Built in Fan Cooling	
OPTIONAL: Digital	Ethernet RJ-45 TCP/IP, RS422/485	Remote Bluetooth
Monitor & Control	Optional GPIB Interface	application
FWD, REV, VSWR, GAIN,		
ALC, V & I, TEMP		

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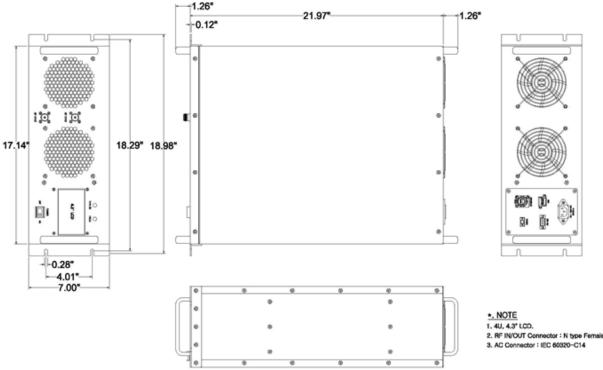


Connect with MtronPTI

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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 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.

















