



## PA0718 SOLID STATE HIGH POWER AMPLIFIER SYSTEM

### FEATURES

- Rack mounted system
- Class AB linear GaN design
- Instantaneous dual ultra-wide bandwidth
- Suitable for all single channel modulation standards
- Small form factor and light weight
- Built-in protection circuits
- High reliability and ruggedness



### ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification		Notes
	Band A	Band B	
Band	Band A	Band B	
Operating Frequency Range by Band	0.7 - 6.0 GHz	6.0 - 18.0 GHz	
Power Output @ Psat	60 Watt / 55 Watt	46 Watt / 35 Watt	Nominal / Minimum
Power Output @ P1dB	57 Watt / 50 Watt	30 Watt / 22 Watt	
Power Gain	48 dB Min	46 dB Min	
Power Gain Flatness	4.0 dB p-p Max	6.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max		Relative to 50 Ohm
3 <sup>rd</sup> order Intercept (IP3)	+54 dBm	+52 dBm	37dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ		At rated Pout
Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	100 - 240 VAC		50/60 Hz
Power Consumption	300 Watt Max	<1000 Watt	At rated Pout
Input Power Protection	+3 dBm Max		<10 Sec without damage
Load VSWR Protection	∞ : 1		Auto shutdown @ 6:1

### 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

### 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	Hi Freq. Type-N Female	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	
Digital Monitor & Control	Ethernet RJ-45 TCP/IP,	
FWD, REV, VSWR, GAIN, ALC, V & I,	RS422/485, USB	
TEMP	Optional GPIB Interface	

### Quality & Certifications

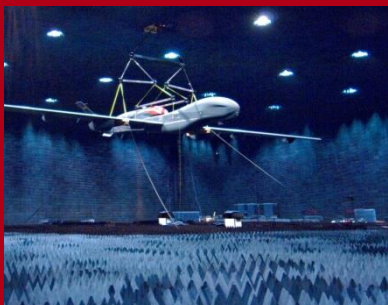
AS9100 Rev D

ISO9001:2008

### Global Service Centers

Orlando, USA

Noida, India



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

mtronpti.com

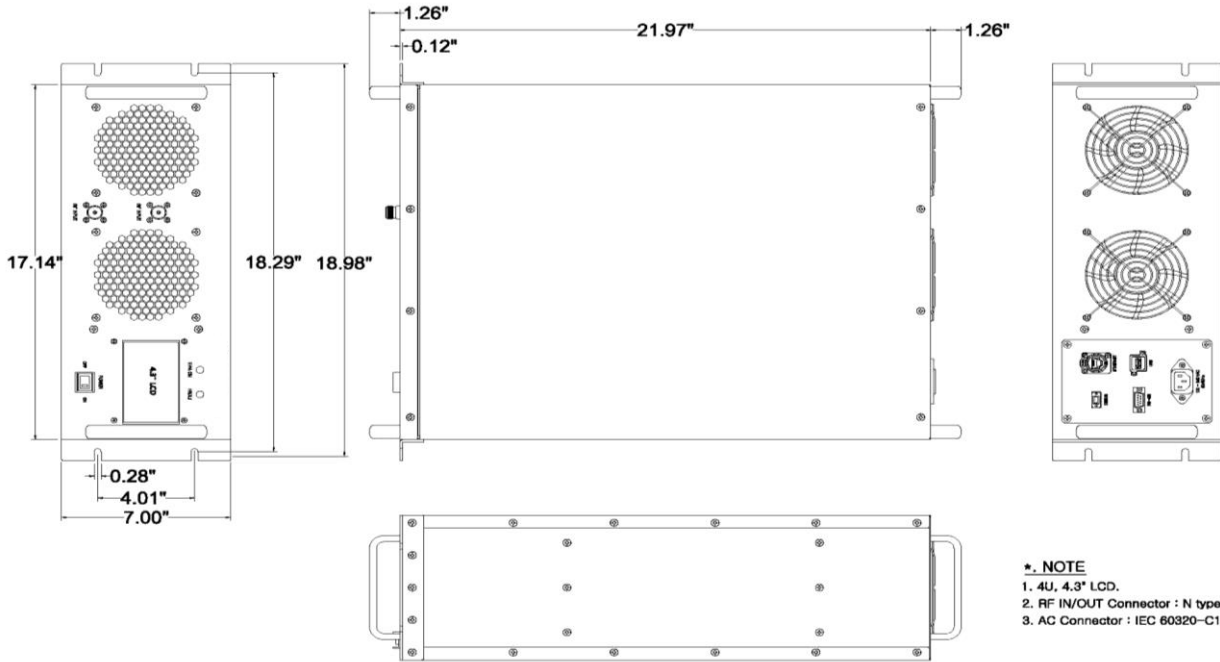
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# Connect with MtronPTI

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- \*. NOTE**
1. 4U, 4.3" LCD.
  2. RF IN/OUT Connector : N type Female
  3. AC Connector : IEC 60320-C14

### 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.

