

FEATURES

Rack mounted system
 Class AB linear LDMOS design
 Instantaneous wide bandwidth
 Suitable for all single channel modulation standards
 Built-in protection circuits
 High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	30 - 520 MHz	
Power Output	1000 Watt Min	CW
Power Gain	60 dB Min	
Power Gain Flatness	3.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	50dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	-20 dBc Typ	
Non Harmonics Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	180 - 240 VAC	
Power Consumption	5 KW Max	At rated Pout
Max Input Power	+8 dBm	Note 1
Load VSWR Protection	$\infty: 1$	Note 2

Notes:

- Nominal Input Power is 0dBm. +8dBm is allowed for up to 10Sec with no damage.
- 1 Minute Max @ rated Pout

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	R5U+ R3U	Rack mounted chassis
Weight	60 Kg.	
RF Connectors In/Out	Type-N Female	Front panel standard
AC Power	See outline drawing	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control	Ethernet RJ-45 TCP/IP, RS422/485	Local LCD or a Remote Bluetooth application
FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Optional GPIB Interface	

Applications

Test and Measurement
 Electronic Warfare
 Radar
 Broadband Jamming
 Public Safety

Quality & Certifications

AS9100 Rev C
 ISO9001:2008

Global Service Centers

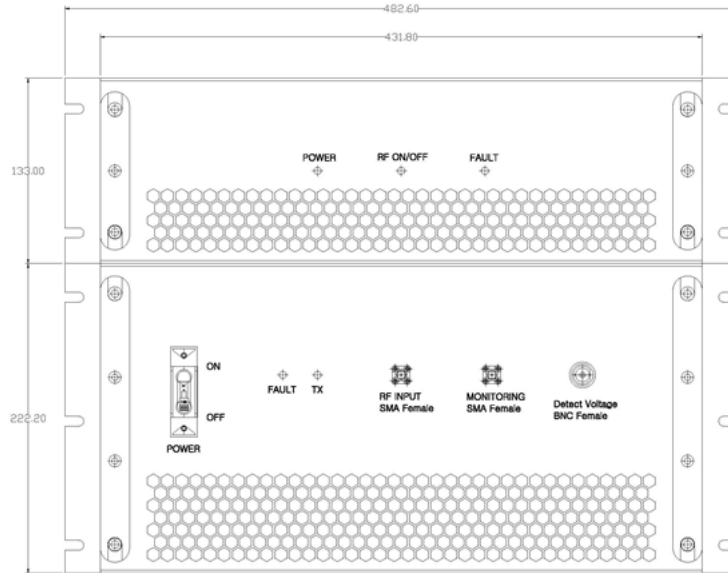
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OUTLINE DRAWING(ref. Only)



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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 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.

