

FEATURES

Class AB linear MOSFET design
 Instantaneous wide bandwidth
 Suitable for all single channel modulations standards
 Built-in monitoring and protection circuits
 High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	20 - 520 MHz	
Output Power @ Psat	25 Watt Min	CW
Output Power @ P1dB	12 Watt Min	
Power Gain	44 dB Min	
Power Gain Flatness	3 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	35dBm/Tone, Δ = 1MHz
Harmonics	>20dBc Typ	At rated output
Spurious	>60dBc	Non harmonics
Operating Voltage	28 - 30 VDC	
Current Consumption	5 Amp Max	At rated Pout
Max Input Power	+10 dBm	Without damage
Load VSWR Protection	∞ : 1	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	170 X 90 X 24 mm	Excluding Connectors
Weight	400 gr.	Max Weight
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	9-Pin D-Sub	
Cooling	External Heatsink required	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	NA	-
2	NA	-
3	CURRENT SENSOR	I _D @50mV/100mA Typ
4	TEMP SENSOR	V _T @10mV/°C + 500mV Typ
5	SHUTDOWN	TTL
6, 7	VDD	28VDC
8, 9	GND	Ground

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

Applications

Test and Measurement
 Electronic Warfare
 Radar
 Broadband Jamming
 Public Safety

Quality & Certifications

AS9100 Rev C
 ISO9001:2008

Global Service Centers

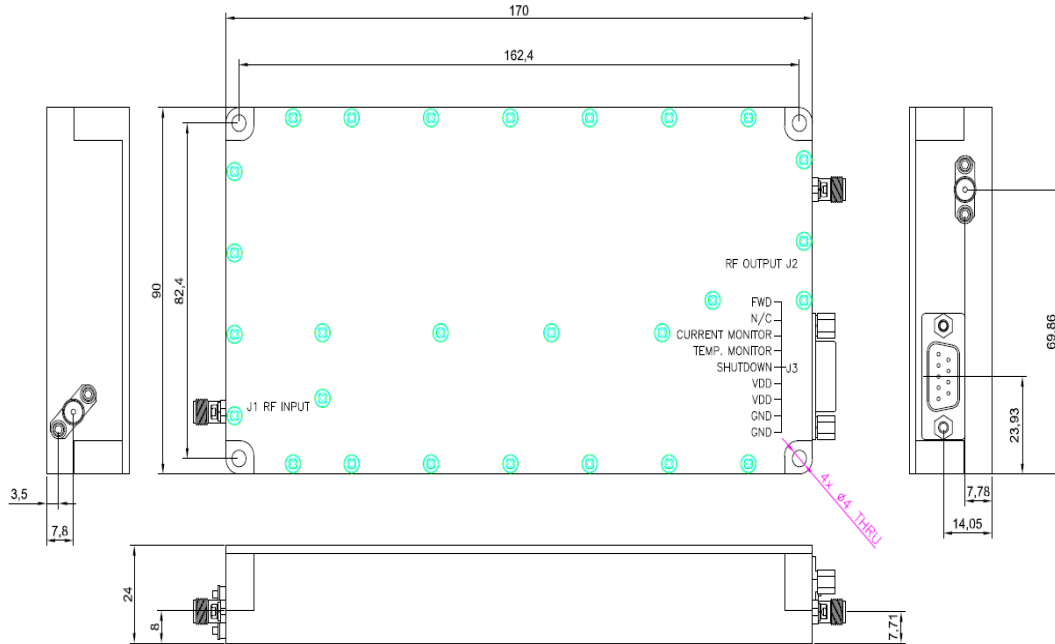
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Experienced

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.

