2525 Shader Road, Orlando Florida 32804 USA
Phone: 407-298-2000 Fax: 407-293-2979
Website: mtronpti.com NYSE MKT: LGL

MtronPTI
...when timing matters

220-1000MHz 300W, 54dB SOLID STATE POWER AMPLIFIER
MtronPTI P/N: PA2032-1

FEATURES

Rack mounted system
Class AB linear LDMOS 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	220 - 1000 MHz	
Power Output	300 Watt Min 250 Watt Min	CW Into 3:1 Load VSWR
Power Gain	54 dB ± 2.0dB	
Power Gain Flatness	4.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	44dBm/Tone, Δ = 1MHz
Harmonics	>20 dBc Typ	
Non Harmonic Spurious	60dBc Min	
Operating Voltage	180 - 240 VAC	
Power Consumption	2000 Watt Max	At rated Pout
Max Input Power	+10 dBm	Without damage
Load VSWR Protection	∞ : 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 Condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	3U Bench Top Chassis	3U
Weight	20 Kg. Max	
RF Connectors In/Out	Type-N Female	
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, GPIB Interface	Remote Bluetooth application

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OUTLINE DRAWING

