

MPA4003 SOLID STATE POWER AMPLIFIER

FEATURES

Small form factor benchtop system
Class A/AB linear solid-state design
Instantaneous wide bandwidth
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	18 - 40 GHz	
Power Output @ Psat	27 dBm Min	CW
Linear Gain	30 dB Min / 40 dB Max	
Power Gain Flatness	±3.0 dB Typ / ±4.0 dB Max	Constant input power
Input Return Loss	-10 dB Typ	
Noise Figure	8 dB Max / 6 dB Typ	
Harmonics	-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	50 Watt Max	At rated Pout
Input Power Protection	+20 dBm Max	<10 Sec without damage
Load VSWR Protection	∞ : 1	<1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +70 °C	
Relative Humidity	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	265 x 88 x 229 mm	Excluding handles
Weight	6 kg.	
RF Connectors In/Out	2.9 mm (K / air type) Female	Front panel standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	Option available in a 2U chassis

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BENCH TOP CHASSIS

