



AMP4029 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Small and light weight bench-top chassis
- Class AB linear GaN design
- Designed for C-Band high power applications
- Suitable for all modulations standards
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	4.2 - 5.2 GHz	
Power Output @ Psat	30 Watt Min	CW
Power Output @ P1dB	12 Watt Typ	
Power Gain	45 dB Min	
Power Gain Flatness	2.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	35dBm/Tone, Δ = 1MHz
Harmonics	>30 dBc Typ	At rated Pout
Non Harmonics Spurious	>60 dBc	
Operating Voltage	100 - 240 VAC	
Power Consumption	180 Watt Max	At rated Pout
Max Input Power	+8 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	265 x 88 x 229 mm	Benchtop
Weight	8 kg.	
RF Connectors In/Out	SMA Female	
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, GPIB Interface, remote Bluetooth available	Requires larger chassis

