

# AA-10k1G-100 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

Class A/AB linear LDMOS design  
 Ultra-broadband, Dual Band  
 Designed for broadband EMI/RFI, Lab, Comm., and EW applications  
 Suitable for all single channel modulation standards  
 Built-in protection circuits  
 High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS

Parameter	Specification		Notes
	A	B	
Band			
Operating Frequency Range	10 kHz - 200 MHz	200 - 1000 MHz	Band switching @ 15 mS Typ
Power Output @ Psat	100 Watt Min		CW, 150 Watt Typ
Power Output @ P1dB	80 Watt Min		CW
Power Gain	50 dB Min		
Power Gain Flatness	3 dB p-p Max		
Input / Return Loss	-10 dB Max		Relative to 50 Ohm
Harmonics	-20 dBc Typ		At rated Pout
Spurious	-60 dBc Max		Non-harmonic
Operating Voltage	100 - 240 VAC		
Power Consumption	800 Watt Max		At rated Pout
Input Power Protection	+5 dBm Max		<10 Sec without damage
Load VSWR Protection	$\infty : 1$		Auto-shutdown @ 6:1 VSWR

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50°C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	483 x 178 x 560 mm	4U - Excluding handles
Weight	24 Kg. Max	
RF Connectors In/Out	Type-N Female	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	
<b>STANDARD:</b> Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP Band Switching Via local or remote interface	Ethernet RJ-45 TCP/IP, RS422/485, USB GPIB Interface	

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## OUTLINE DRAWING

