Advanced Amplifiers

AA-118G-20
1.0 - 18.0 GHz, 20 W, 43 dB Min.
Solid State High Power Pulse Amplifier

FEATURES

- Rack mounted system
- Ultra-broadband Hybrid MMIC design
- 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: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	1.0 - 18.0 GHz	CW
Power Output CW	20 Watt Min	25 W Typ
Power Output @ P1dB	8 Watt Typ	
Power Gain	43 dB Min	
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	Relative to 50 Ω
2-Tone Intermodulation (IMD)	-30 dBc Typ	33dBm/Tone, Δ = 1MHz
Harmonics	<-20 dBc Typ	At rated output power
Non-Harmonic Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	500 Watt Max	At rated Pout
Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<1 minute at rated Pout

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	3U	Excluding handles
Weight	20 Kg.	
RF Connectors In/Out	Hi Freq. N-F / N-F	Front or rear panel
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	Controller/coupler reduce output power by approx 1.0dB.