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MODEL 5175

1.0 - 3.0 GHz
200 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5175 is a 200 Watt broadband amplifier that covers the 1.0 – 3.0 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3rd order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.0 – 3.0 GHz
2	Saturated Output Power	200 Watts min
3	Power Output @ 1dB Comp.	100 Watts min
4	Small Signal Gain	+54 dB min
5	Small Signal Gain Flatness	+/-1.0 dB max with ALC @ -20dBm input power +/-5dB max with no ALC
6	IP_3	+60 dBm typ
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 100 Watts
9	Spurious Signals	> -60 dBc typical
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	2500 Watts max
12	AC Input	186 – 264 VAC, three phase
13	RF Input	+10 dBm max
14	EMI Radiation	-40dBm per meter
15	Class of Operation	A/AB
Mechanical		
16	Dimensions	19” x 14” x 26” , (8U)
17	Weight	150 lb. max
18	Connectors	Type-N for RF BNC for Gating RJ-45 for control
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
21	Operating Temperature	0º C to +50º C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000’ Above Sea Level
24	Shock and Vibration	Normal Truck Transport

ORDERING MODELS

◊ RE - Rear panel RF connectors with IEEE488, Ethernet and RS232
◊ FE - Front panel RF connectors with IEEE488, Ethernet and RS232

CIRCUIT PROTECTIONS

◊ Thermal Overload
◊ Over Current
◊ Over Voltage
◊ VSWR protection
◊ RF Output over drive

CIRCUIT INDICATIONS

◊ Forward Power
◊ Reflected power
◊ VSWR Fault
◊ Temp Fault
◊ Gain Setting (VVA) percentage

CIRCUIT CONTROL

◊ Standby (amplifier disable)
◊ Gain/power setting with 25dB range
◊ VSWR protection Reset
◊ ALC On/ Off