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MODEL 5099

500-1000 MHz
2000 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5099 is a 2KW broadband amplifier that covers the 500-1000 MHz frequency range. This Compact 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
<u>Electrical</u>		
1	Frequency Range	500-1000 MHz
2	Saturated Output Power	2.0KW Minimum
4	Small Signal Gain	+61 dB min
5	Power Gain Flatness	+/- 1.0 dB maximum
6	IP ₃	+68 dBm typ.
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc maximum
9	Spurious Signals	< -60 dBc typical
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	12 KW max
12	AC Input	180 – 264 VAC, 3Ø
13	RF Input	+0 dBm max
15	Class of Operation	A/AB
<u>Mechanical</u>		
16	Dimensions	19" x 14" x 26" , (8U)
17	Weight	150 lb. max
18	Connectors	Type-N for RF In Type 7/16 for output
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<u>Environmental</u>		
21	Operating Temperature	0° C to +50° 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 IEEE-488, Ethernet and RS-232
- ◇ FE - Front panel RF connectors with IEEE-488, Ethernet and RS-232

Specifications subject to change without notice

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 25 dB range
- ◇ VSWR protection Reset
- ◇ ALC On/ Off