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MODEL 5256-003

0.8 - 2.5 GHz
400 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5256-003 is a 400 Watt broadband amplifier that covers the 0.8 – 2.5 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.

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ VSWR protection

CIRCUIT CONTROL

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 25dB range
- ◇ VSWR protection Reset

CIRCUIT INDICATIONS

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

ORDERING MODELS

- ◇ RE - Rear Panel RF Connector model with RS232, IEEE, & Ethernet
- ◇ FE - Front Panel RF Connector model with RS232, IEEE, & Ethernet

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	0.8 – 2.5 GHz
2	Saturated Output Power	400 Watts minimum
3	Small Signal Gain	+56 dB minimum
4	Power Flatness @ each band	+/- 3.0 dB max with no ALC +/- 1 dB max with internal leveling
5	IP ₃	+60 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	3000 Watts max
11	AC Input	180 – 264 VAC, single phase
12	RF Input	+10 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
Mechanical		
15	Dimensions	19" x 8.75" x 26"
16	Weight	67 Lbs.
17	Connectors	Type-N (RF Input) 7/16 DIN (RF Output)
18	Grounding	Chassis
19	Cooling	Internal Forced Air
Environmental		
20	Operating Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

-003 SPECIAL FEATURES Specifications subject to change without notice

- ◇ Pulsed or CW operation
- ◇ Limited Power Monitoring and ALC function in Pulsed Mode
- ◇ Forward Power Sample Port on Rear Panel
- ◇ Pulse Rise and Fall Times less than 100 nSec