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MODEL 5163FE-015

0.8 - 4.2 GHz
50 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5163FE-015 is a 50 Watt broadband amplifier that covers the 0.8 – 4.2 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. The 5163FE-015 has the RF connectors located on the Front of the amplifier and communication ports on the Rear.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	0.8 – 4.2 GHz
2	Saturated Output Power	50 Watts typical
3	Power Output @ 1dB Comp.	40 Watts min
4	Small Signal Gain	+48 dB min
5	Small Signal Gain Flatness	± 3.0 dB max
6	IP ₃	+56 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 40 Watts
9	Spurious Signals	< -60 dBc typical @ 40 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	600 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
16	Customized Software	Set as Slave 1Controller
<u>Mechanical</u>		
17	Dimensions	19" x 5.25" x 20"
18	Weight	48 lb. max
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
<u>Environmental</u>		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

CIRCUIT INDICATIONS

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

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

COMMUNICATION

- ◇ Ethernet
- ◇ IEEE-488

AMPLIFIER OPTIONS USING 6900002 (RF RELAY)

- ◇ Can be Used as standalone amplifier
- ◇ Can be Used in Dual Mode with 5125FE-015
- ◇ Can be Used in Group Mode with 5125FE-015 and 4010FE-015