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MODEL 5064-900

1 - 1000 MHz
50 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5064-900 is a 50 Watt broadband amplifier that covers the 1 – 1000 MHz 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. Like all OPHIR$_{RF}$ amplifiers, the 5064-900 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1 – 1000 MHz
2	Saturated Output Power	50 Watts typical
3	Power Output @ 1dB Comp.	30 Watts min
4	Small Signal Gain	+48 dB min
5	Gain Flatness / with ALC	± 2.0 / ± 0.75 dB max
6	IP_3	+54 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 30 Watts
9	Spurious Signals	< -60 dBc typical @ 30 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	1000 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	0 dBm
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
Mechanical		
16	Dimensions	19" x 5.25" x 20"
17	Weight	50 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
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

FEATURES

◊ Customer Specific Front Panel
◊ Rear Panel Mounted DB9-Female for External RF Enable / Standby Control
NOTE: Pin **5** is GND, Pin **1** is the Control Line.
- IF Pin 1: OPEN - RF Standby Condition (Nominal Gain - 30dB min.)
- IF Pin 1: GND- RF Enabled (Amplifier in Normal Operation) (< 100mA to Activate)

100 WATT REAR CONNECTOR UNIT SHOWN

CIRCUIT PROTECTIONS

◊ Thermal Overload
◊ Over Current
◊ Over Voltage

CIRCUIT INDICATIONS (w Controller Option)

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

CIRCUIT CONTROL (w Controller Option)

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

ORDERING MODELS

◊ R - Rear Panel Connectors
◊ F - Front Panel Connectors
◊ RE - R model with Ethernet, IEEE488 and RS232
◊ FE - F model with Ethernet, IEEE488 and RS232

Specifications subject to change without notice

08-11

Approved By: _____ Date: _____