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MODEL 5022A-007

1.3 GHz (+/- 10 MHz)
50 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broad-band High Power RF Amplifier

The 5022A-007 is a 50 Watt fixed Frequency amplifier that covers the 1.3 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. Like all OPHIR_{RF} amplifiers, the 5022A-007 comes with an extended multiyear warranty.

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ Over RF Input
- ◇ VSWR

CIRCUIT INDICATIONS

- ◇ Forward Power (Displayed on Front Panel, and Remotely)
- ◇ Reflected power (Displayed on Front Panel, and Remotely)
- ◇ VSWR Fault (Displayed on Front Panel, and Remotely)
- ◇ Temp Fault (Displayed on Front Panel, and Remotely)
- ◇ Gain Setting (VVA) percentage (Displayed on Front Panel, and Remotely)
- ◇ Standby (Displayed on Front Panel, and Remotely)
- ◇ Online (Displayed on Front Panel, and Remotely)

ORDERING MODELS

- ◇ RE Front RF Connector model with Ethernet, IEEE488 & RS-232
- ◇ FE Rear RF Connector model with Ethernet, IEEE488 & RS-232

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.3GHz (+/- 10MHz)
2	Saturated Output Power	50 Watts rated
3	Power Output @ 1dB Comp.	40 Watts min
4	Small Signal Gain	+48 dB min
5	Automatic Leveling Control (ALC)	Allows user to set a fixed output level that will remain constant regardless of in input , amplitude, phase, or temperature variations.
6	IP ₃	+56 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-60 dBc typical @ 50 Watts
9	Spurious Signals	< -60 dBc typical @ 50 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	400 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	Fail-Safe Pin (9 Pin DSUB Connector on Rear panel)	Unit Will Require a TTL High for Operation (Enabled) TTL Low for RF Off Mode
Mechanical		
17	Dimensions	19" x 5.25" x 20"
18	Weight	38 lb. max
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
Environmental		
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.



RE Model Shown