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MODEL 5035-001

20 - 500 MHz
25 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 5035-001 is a 25 Watt band-specific amplifier that covers the 20 – 500 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 5035-001 comes with an extended multiyear warranty.

CIRCUIT PROTECTIONS

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

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	20 – 500 MHz
2	Saturated Output Power	25 Watts typical
3	Power Output @ 1dB Comp.	15 Watts min
4	Small Signal Gain	+43 dB min
5	Small Signal Gain Flatness	± 1.5 dB max
6	IP ₃	+48 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 15 Watts
9	Spurious Signals	> -60 dBc typical @ 15 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	100 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
16	Pulse Width	500-1000mS
17	Pulse Droop	<20%
18	Pulse Input	TTL via BNC connector
Mechanical		
19	Dimensions	19" x 3.5" x 18"
20	Weight	28 lb. max
21	Connectors	Type-N
22	Grounding	Chassis
23	Cooling	Internal Forced Air
Environmental		
24	Operating Temperature	0° C to +50° C
25	Operating Humidity	95% Non-condensing
26	Operating Altitude	Up to 10,000' Above Sea Level
27	Shock and Vibration	Normal Truck Transport

ORDERING MODELS

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors
- ◇ RE - R model w/Control Option
- ◇ FE - F model w/Control Option
- ◇ RT - RE model w/Ethernet Interface
- ◇ FT - FE model w/Ethernet Interface

Approved By: _____ Date: _____



RE Model Shown