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MODEL 4028

1.75 - 1.85 GHz
500 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 4028 is a 500 Watt band-specific amplifier that covers the 1.75 – 1.85 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 4028 comes with an extended multiyear

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.75 – 1.85 GHz
2	Saturated Output Power	500 Watts typical
3	Power Output @ 1dB Comp.	400 Watts min
4	Small Signal Gain	+58 dB min
5	Small Signal Gain Flatness	± 1.0 dB max
6	IP ₃	+62 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 400 Watts
9	Spurious Signals	< -60 dBc typical @ 400 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	2500 Watts max
12	AC Input	208 ± 10% 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
Mechanical		
16	Dimensions	19" x 8.75" x 26"
17	Weight	85 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

Specifications subject to change without notice.

CIRCUIT PROTECTIONS

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

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



FE Model Shown