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MODEL 5312075

950 - 958 MHz
40 WATTS

Solid State Band-specific High Power RF Amplifier

The 5312075 is a 40 Watt band-specific amplifier that covers the 950 – 958 MHz frequency range. This small and lightweight amplifier utilizes Class A 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 5312075 comes with an extended

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	950 – 958 MHz
2	Saturated Output Power	40 Watts typical
3	Power Output @ 1dB Comp.	30 Watts min
4	Small Signal Gain	+50 dB min
5	Gain Flatness	± 0.2 dB max
6	IP ₃	+55 dBm typical
7	Input/Output VSWR	1.5:1 max
8	Harmonics	-20 dBc typical @ 30 Watts
9	Spurious Signals	> -60 dBc typical @ 30 Watts
10	Noise Figure	12 dB max
11	Input/Output Impedance	50 Ohms nominal
12	DC Input Current	8 Amps max
13	DC Input	13 VDC nominal
14	RF Input	+10 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A
<u>Mechanical</u>		
17	Dimensions	6.55" x 4" x 1.1"
18	Weight	3 lb. max
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
22	Baseplate 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.

