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MODEL 5304025-001
1640 - 2640 MHz
200 WATTS
LINEAR POWER RF AMPLIFIER

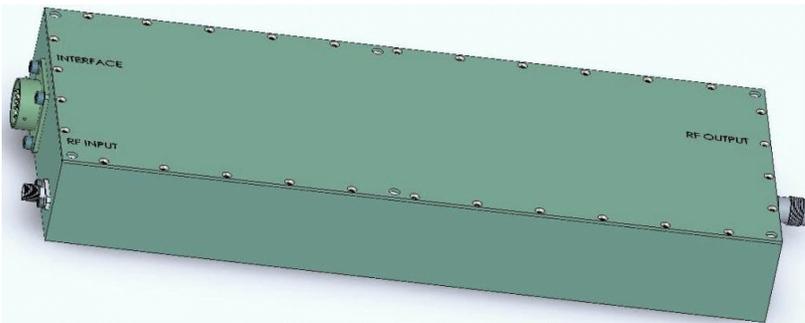
Solid State Broadband High Power RF Amplifier

The 5304025-001 is a 200 Watt broadband amplifier that covers the 1640 - 2640 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 5304025-001 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1640 – 2640 MHz
2	Output Power CW (P_{SAT})	200 Watts typical
3	Output Power CW (P_{1dB})	150 Watts typical
4	Small Signal Gain	+53 dB min
5	Power Gain Flatness	± 2.0 dB max
6	IP ₃	+54 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical
9	Spurious Signals	< -60 dBc typical
10	Noise Figure	< 10 dB
11	Input/Output Impedance	50 Ohms nominal
12	DC Current for Rated Output	35 Amps maximum
13	DC Input	28 VDC nominal
14	RF Input	+0 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
Mechanical		
17	Dimensions	10.8" x 4.0" x 1.45"
18	Weight	3.2 lb. max
19	Connectors	(RF Input) SMA female (RF Output) TNC female
	DC & Control Connector	ITT, Cannon Series II # MS27499E12B35P
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
Environmental		
22	Baseplate Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 40,000' Above Sea Level
25	Shock and Vibration	MIL-STD-810F (Method 516.5)

Specifications subject to change without notice



DC Blanking:
 ◇ Rise/Fall Time < 5uSec