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MODEL 5304025

800-3000 MHz
200 WATTS
LINEAR POWER RF AMPLIFIER

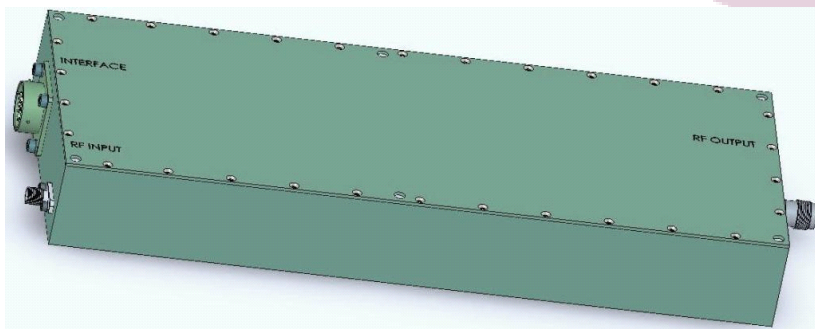
Solid State Broadband High Power RF Amplifier

The 5304025 is a 200/150 Watt broadband amplifier that covers the 800-3000 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 comes with an extended multiyear warranty.

Specifications subject to change without notice

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	800-3000 MHz
2	Output Power CW (P_{SAT})	0.8-2.5 GHz: 200 Watts typical 2.5-3.0 GHz: 150 Watts typical
3	Small Signal Gain	+53 dB min
4	Power Gain Flatness	0.8 – 2.5 GHz: ± 1.5 dB max 2.5 – 3.0 GHz: ± 2.0 dB max
5	IP_3	+54 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-15 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Input/Output Impedance	50 Ohms nominal
10	DC Current for Rated Output	35 Amps maximum
11	DC Input	28 VDC nominal
12	RF Input	+0 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
<u>Mechanical</u>		
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 ITT, Cannon Series II # MS27499E12B35P
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 40,000' Above Sea Level
25	Shock and Vibration	MIL-STD-810F (Method 516.5)



DC Blanking:

◇ Rise/Fall Time < 10μs



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Interface connector pin-out and description table:

Connector and Pin Number:	Description:
J1-1	GND
J1-2	+28 Vdc
J1-3	+28 Vdc
J1-4	+28 Vdc
J1-5	+28 Vdc
J1-6	+28 Vdc
J1-7	GND
J1-8	GND
J1-9	No connection
J1-10	No connection
J1-11	Enable/Disable (Input)
J1-12	No connection
J1-13	Blanking (Input)
J1-14	No connection
J1-15	GND
J1-16	+28 Vdc
J1-17	+28 Vdc
J1-18	GND
J1-19	No connection
J1-20	No connection
J1-21	GND
J1-22	GND

Logic for Enable/Disable and Blanking pins:

3-5 Vdc = on; <0.5 Vdc = off