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MODEL 5304041

1000-3000 MHz
160 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5304041 is a 160 Watt broadband amplifier that covers the 1000-3000 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.

This RFPA module is a qualified Airborne Amplifier, and is perfect for a variety of EW and applications, and Harsh environment application

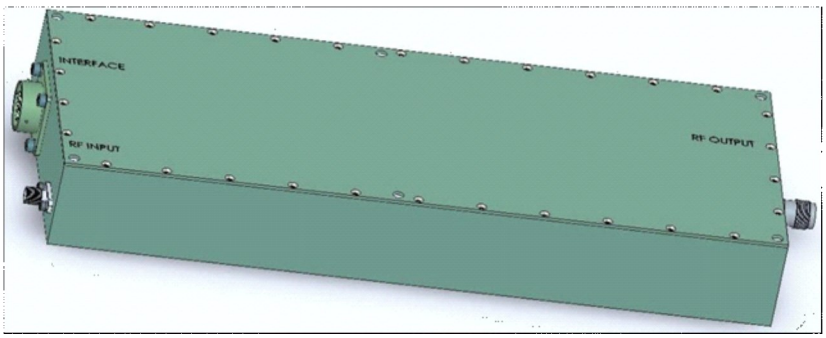
Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR$_{RF}$ amplifiers, the 5304041 comes with an extended multiyear warranty.

Specifications subject to change without notice

DC Blanking

◊ Rise/Fall Time < 2uSec

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1000-3000 MHz
2	Output Power CW (P_{SAT})	160 Watts Min
3	Power Gain	+16 dB min
4	Gain Flatness	± 2.0 dB max
5	Enable /Disable (TTL Standard)	Low=Enable High= Disable
6	Enable/Disable Settling	2uS maximum
7	Input VSWR	1.8:1 max
8	Harmonics	-20 dBc at rated power
9	Spurious Signals	70dBc Minimum
10	Mod to Mod Gain Matching	+/- 1dB at rated power
11	Mod to Mod Phase matching	+/- 10° at rated power
12	Input/Output Impedance	50 Ohms nominal
13	DC Current for Rated Output	20 Amps Nominal at full power
14	DC Input	28 VDC nominal
15	RF Input	+42 dBm max
16	RF Input Signal Format	CW/AM/FM/PM/Pulse
17	Class of Operation	A/AB
Mechanical		
18	Dimensions W x L x H	3.4" x 11.5" x 1.4"
19	Weight	3.0 lb. max
20	Connectors DC & Control Connector	(RF Input) SMA female (RF Output) N female ITT, Cannon Series II # MS27499E12B35P
21	Grounding	Chassis
22	Cooling	Adequate Heatsink Required
Environmental		
23	Baseplate Temperature	-20º C to +85º C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 40,000' Above Sea Level
26	Shock and Vibration	MIL-STD-810F (Method 516.5)



Approved By: _____ Date: _____