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MODEL 5304042

3100-3600 MHz
100 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5304042 is a 100 Watt broadband amplifier that covers the 3100-3600 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 5304042 comes with an extended multiyear warranty.

Specifications subject to change without notice

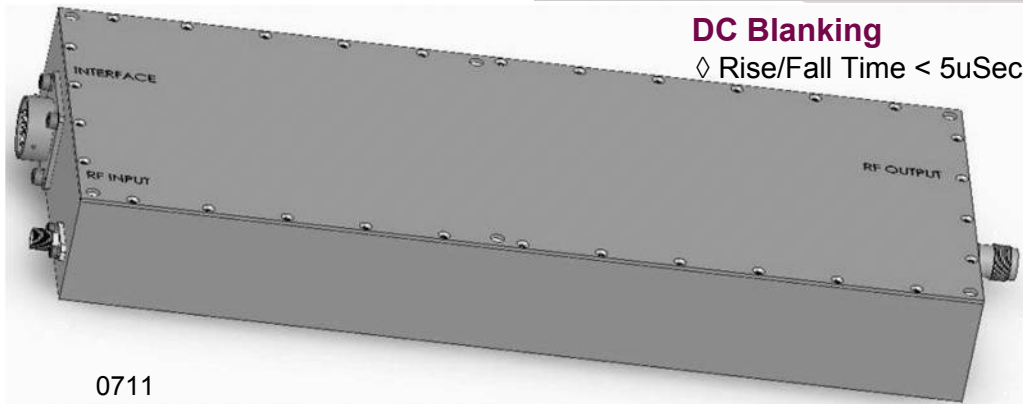
	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	3100-3600 MHz
2	Output Power CW (P _{SAT})	100 Watts Min
3	Output Power CW (P _{1dB})	50 Watts Min
4	Small Signal Gain	+51 dB min
5	Gain Flatness	± 2.5 dB max
6	IP ₃	+54 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-25 dBc typical
9	Spurious Signals	< -60 dBc typical
10	Noise Figure	< 10 dB
11	Input/Output Impedance	50 Ohms nominal
12	DC Input	28 VDC nominal
13	RF Input	+0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<u>Mechanical</u>		
16	Dimensions	3.4" x 8.9" x 1.5"
17	Weight	3.5 lb. max
18	Connectors	(RF Input) SMA female (RF Output) N female ITT, Cannon Series II
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
21	Baseplate Temperature	-40° C to +85° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 40,000' Above Sea Level
24	Shock and Vibration	MIL-STD-810F (Method 516.5)

DC Blanking

◇ Rise/Fall Time < 5uSec

Available Options

- ◇ Heatsink and Fans
- ◇ Integrated Output Isolator
- ◇ Output Directional Coupler
- ◇ Available as 19" Rack Mount Unit
- ◇ Many Other options Available
- ◇ Consult Factory for other options



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Approved By: _____ Date: _____