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MODEL 5303038-001

20 - 1000 MHz
25 WATTS
LINEAR POWER RF AMPLIFIER
With VVA Gain Adjustment Option

Solid State Broadband High Power RF Amplifier

The 5303038-001 is a 25 Watt broadband amplifier that covers the 20 – 1000 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. In addition this module has a built-in VVA which gives this amplifier a gain adjustment of at least 20dB 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 5303038-001 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	20 – 1000 MHz
2	Saturated Output Power	25 Watts typical
3	Power Output @ 1dB Comp.	10 Watts min
4	Small Signal Gain	+46 dB min
5	Gain Flatness	± 1.5 dB max
6	IP ₃	+48 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 10 Watts
9	Spurious Signals	< -60 dBc typical @ 10 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	4.5 Amps max
12	DC Input	28 VDC nominal
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	VVA Voltage Range	0V (Max Atten) 6V (Min Atten) Typical
16	VVA Range	20-25dB range
17	Class of Operation	AB
<u>Mechanical</u>		
18	Dimensions	6" x 3" x 1.1"
19	Weight	1 lb.
20	Connectors	SMA female
21	Grounding	Chassis
22	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
23	Operating Temperature	0° C to +50° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

