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MODEL 5303038A-005

2 - 500 MHz
15 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303038A-005 is a 15-Watt broadband amplifier that covers the 2 – 500 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 5303038A-005 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2 – 500 MHz
2	Saturated Output Power	15 Watts rated
3	Power Output @ 1dB Comp.	5 Watts min
4	Small Signal Gain	+43 dB min
5	Gain Flatness	± 1.0 dB max
6	IP ₃	+45 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 5 Watts
9	Spurious Signals	< -60 dBc typical @ 5 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	5.5 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	Class of Operation	AB
16	Shutdown feature (open collector)	Open = on Ground = off
Mechanical		
17	Dimensions	6" x 3" x 1.1"
18	Weight	1 Lb.
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
Environmental		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

