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MODEL 5303025-001

2.0 - 4.0 GHz

15 WATTS

LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 5303025-001 is a 15 Watt broadband amplifier that covers the 2.0 – 4.0 GHz 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 is an RF Amplifier assembly comprising an output RFPA combined with a separate driver PA module. This assembly has been featured in several Scientific and research articles.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

	Parameter	Specification @ 25 °C
Electrical		
1	Frequency Range	2.0 – 4.0 GHz
2	Saturated Output Power	15 Watts typical
3	Power Output @ 1dB Comp.	10 Watts min
4	Small Signal Gain	43 dB min
5	Gain Flatness	± 2 dB max
6	IP ₃	+50 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	10 Amps max
12	DC Input	13 VDC nominal
13	RF Input	0 dBm nominal
14	Maximum RF input	+10dBm max
15	Class of Operation	A/AB
Mechanical		
15	Dimensions	6.1" x 10.0" x 4.3"
16	Weight	7 lb. max
17	Connectors	SMA Female
18	Grounding	Chassis
19	Cooling	Internal Forced Air
Environmental		
20	Operating Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice

