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MODEL 5303116

2.0-6.0GHz

80 WATTS

HIGH POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303116 is a 80 Watt broadband amplifier that covers the 2.0-6.0 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.

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

Specifications subject to change without notice

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2.0-6.0 GHz
2	Output power @ Psat	80 Watts Minimum
3	Small Signal Gain	+50 dB min
4	Power Gain Flatness	+/-3.0dB max
5	Input Return loss	-10dB max
6	Harmonics	-20 dBc Maximum
7	Spurious Signals	-60 dBc max
8	Input/Output Impedance	50 Ohms nominal
9	DC Input Power	20 A max
10	DC Input	28 V
11	RF Input Power	0 dBm Maximum
12	RF Input Signal Format	CW/AM/FM/PM/Pulse
13	Class of Operation	A/AB
14	Module Blanking Rise and Fall Time	TTL : 5V for enable 5 u Seconds
Mechanical		
15	Dimensions	10" x 12" x 1"
16	Weight	11lb. max
17	Connectors	SMA RF Input and Output Feedthrus for DC and Control
18	Grounding	Chassis
19	Cooling	Adequate Heatsink Required
Environmental		
20	Ambient 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

