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MODEL 5302380
1.2 - 1.6 GHz
20 WATTS
POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5302380 is a 20 Watt broadband amplifier that covers the 1.2 – 1.6 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent efficiency, 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.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	1.2 – 1.6GHz
2	Saturated Output Power	20 Watts minimum
4	Small Signal Gain	+44 dB min
5	Power Gain Flatness	± 0.75 dB max
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical
9	Spurious Signals	> -60 dBc typical
10	DC Consumption	80W maximum
11	DC Input Voltage	28V
12	RF Input drive required For a rated power	0dBm minimum
13	VSWR Protection	Protected by Circulator
14	Class of Operation	A/AB
<u>Mechanical</u>		
15	Dimensions	3.0" x 8.0" x 1.1"
16	Weight	2 lb. max
17	Connectors	SMA female for RF Feed Thru for DC
18	Grounding	Chassis
19	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
20	Baseplate Temperature	-10° C to +60° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal truck transportation