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**5303134**  
**2.5 - 2.7 GHz**  
**300 WATTS**  
**HIGH POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 5303134 is a 300 Watt broadband amplifier that covers the 2.5-2.7 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3<sup>rd</sup> 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.

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	2.5-2.7 GHz
2	Output power @ Psat	300 Watts Minimum
3	Small Signal Gain	+56 dB min
4	Power Gain Flatness	+/-0.5dB max
5	Input Return loss	-10dB max
6	Harmonics	-20 dBc Maximum
7	Spurious Signals	< -60 dBc Typ.
8	Input/Output Impedance	50 Ohms nominal
9	DC Power Consumption	1,200W Max
10	DC Input	+28 VDC
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
<b><u>Mechanical</u></b>		
17	Dimensions	10" x 11.5" x 1.5"
18	Weight	9lb. max
19	Connectors	RF Input SMA Female RF Output Type N Male
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></b>		
22	Ambient 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

### SPECIAL FEATURES

- ◇ Fast Blanking Speed 5uSec
- ◇ High power in a small, Compact RFPA Module
- ◇ High Efficiency

### OPTIONS

- ◇ Heat sink and Fans (Change Part Number to 5803134)

