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MODEL 5300709
292 - 320 MHz
20 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5300709 is a 20 Watt RF amplifier that covers the 292 – 320 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. The module has a built in variable voltage attenuator.

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 5300709 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	292 – 320 MHz
2	Saturated Output Power	20 Watts min
3	Power Output @ 1dB Comp.	12 Watts min
4	Small Signal Gain	+44 dB min
5	Gain Flatness	± 1.0 dB max
6	IP ₃	+46 dBm Typical
10	Input VSWR	2:1 max
11	Harmonics	-20 dBc typical @ 12 Watts
12	Spurious Signals	< -60 dBc typical @ 12 Watts
13	Input/Output Impedance	50 Ohms nominal
14	DC Input Current	4 Amps max
15	DC Input	28 Vdc nominal
16	RF Input	0 dBm max
17	RF Input Signal Format	CW/AM/FM/PM/Pulse
18	Class of Operation	AB
Mechanical		
19	Dimensions	6" x 3" x 1.1"
20	Weight	2 lbs. Max
21	Connectors	SMA female
22	Grounding	Chassis
23	Cooling	Adequate Heatsink Required
Environmental		
24	Baseplate Temperature	0° C to +50° C
25	Operating Humidity	95% Non-condensing
26	Operating Altitude	Up to 10,000' Above Sea Level
27	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

Included Options:

Variable voltage attenuator (VVA): 20 dB dynamic range
 Open collector shutdown: Open = on; Ground = off.
DO NOT APPLY ANY VOLTAGE TO PIN

