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5312027AGC-XXX

1800 - 2000 MHz
12 WATTS

Solid State 1800 – 2000 MHz High Power RF Amplifier

The 5312027AGC-XXX is a 12 Watt band specific amplifier that can cover a 75 MHz segment within the 1800 – 2000 MHz frequency range. The amplifier will have a dash number assigned depending on its 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. Like all OPHIR$_{RF}$ amplifiers, the 5312027AGC-XXX comes with an extended warranty.

	Parameter	Specification @ 25 ºC
Electrical		
1	Frequency Range	1800 – 2000 MHz
2	Instantaneous Bandwidth	75 MHz min.
3	Saturated Output Power	12 Watts typical
4	Power Output @ 1dB Comp.	10 Watts typical
5	Small Signal Gain	+45 dB min
6	Gain Flatness	±1.0 dB max
7	IP_3	+50 dBm min.
8	Input VSWR	1.5:1 max.
9	Output VSWR	1.5:1 max.
10	Harmonics	-20 dBc typical @ 10 W Pout
11	Spurious Signals	> -60 dBc typical @ 10 W Pout
12	DC Input Current	3.5 Amps max
13	DC Input	14.0 ± 1.0 VDC
14	RF Input	+10 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
17	Noise Figure	< 15 dB typical
Mechanical		
18	Dimensions	6.0” x 2.75” x 0.8”
19	Weight	1 lb. max
20	Connectors	SMA female
21	Grounding	Chassis
22	Cooling	Adequate Heat sink Required
Environmental		
23	Baseplate Temperature	0º C to +70º C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000’ Above Sea Level
26	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

Included Features

◊ AGC
◊ Detected RF Output (0 to +5VDC)
◊ Thermal Shutdown