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MODEL 5912043-001

1805 - 1880 MHz
60 WATTS

Solid State Band-Specific High Power RF Amplifier

The 5912043-001 is a 60 Watt band-specific amplifier that covers the 1805 – 1880 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.

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 5912043-001 comes with an extended

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1805 – 1880 MHz
2	Saturated Output Power	60 Watts typical
3	Class of Operation	AB
4	Power Gain	+21 dB min @ 50 Watts
5	Gain Flatness	± 1.0 dB max
6	Input/Output VSWR	2:1 max
7	Efficiency	30% typical @ 50 Watts
8	RF Input	+27 dBm nominal
9	DC Input	13 VDC nominal 14 VDC max 12 VDC with degradation
10	DC Input Current	11 Amps max
Mechanical		
11	Dimensions (w/Heatsink)	7.0" x 4.5" x 2.5" (TBD)
12	Weight (w/Heatsink)	6 lbs. max (TBD)
13	In/Out RF Connectors	SMA Female
14	Interface Connector	DB-9 Female
15	Grounding	Chassis
16	Cooling	Adequate Airflow Required
17		
Environmental		
18	Baseplate Temperature	-10° C to +70° C
19	Operating Altitude	Up to 10,000' Above Sea Level
20	Shock and Vibration	Normal Truck Transport



FEATURES:

- * Heatsink Included (Not Shown)
- * General Failure Alarm:
Over Temperature
High VSWR