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MODEL 5303006-006

420 - 480 MHz
30 WATTS

Solid State Band-Specific High Power RF Amplifier

The 5303006-006 is a 30 Watt band-specific amplifier that covers the 420 – 480 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 5303006-006 comes with an extended

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	420 – 480 MHz
2	Power Output @ 1dB Comp.	30 Watts min
3	Small Signal Gain	+48 dB min
4	Gain Flatness	± 1.5 dB max
5	IP ₃	+51 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 30 Watts
8	Spurious Signals	> -60 dBc typical @ 30 Watts
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Current	10 Amps max
11	DC Input	28 VDC nominal
12	RF Input	0 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	AB
<u>Mechanical</u>		
15	Dimensions	6" x 3" x 1.1"
16	Weight	2 lb. max
17	Connectors	SMA female
18	Grounding	Chassis
19	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
20	Baseplate Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

