



5300 Beethoven Street, Los Angeles, CA 90066  
 TEL: (310)306-5556 • FAX: (310)577-9779  
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

**MODEL 5302016**

**2.3 - 2.4 GHz**  
**40 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Band-specific High  
 Power RF Amplifier**

The 5302016 is a 40 Watt band-specific amplifier that covers the 2.3 – 2.4 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. Like all OPHIR<sub>RF</sub> amplifiers, the 5302016 comes with an extended multiyear warranty.

	<u>Parameter</u>	<u>Specification</u>
<b><u>Electrical</u></b>		
1	Frequency Range	2.3 – 2.4 GHz
2	Instantaneous Bandwidth	60 MHz min
3	Saturated Output Power	40 Watts typical
4	Power Output @ 1dB Comp.	35 Watts min
5	Power Output W-CDMA	7.5 Watts typical
6	Small Signal Gain	+45 dB min
7	Gain Flatness	± 0.5 dB max
8	IP <sub>3</sub>	+55 dBm typical
9	Input VSWR	2:1 max
10	Harmonics	-20 dBc typical @ 1 dB comp.
11	Spurious Signals	> -60 dBc
12	Input/Output Impedance	50 Ohms nominal
13	DC Input Current @ 7.5W	8 Amps max
14	DC Input	12 – 15 VDC nominal
15	RF Input Overdrive	+10 dB over 1 dB Compression
16	RF Input Signal Format	CW/AM/FM/PM/Pulse
17	Class of Operation	A/AB Linear
<b><u>Mechanical</u></b>		
18	Dimensions	6.55" x 4" x 1.1"
19	Weight	4 lb. max
20	Connectors	SMA female
21	Grounding	Chassis
22	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></b>		
23	Operating Temperature	0° C to +50° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	Normal Truck Transport

**AVAILABLE OPTIONS**

- ◇ Gain Adjustment
- ◇ Automatic Level Control
- ◇ Extended Temperature Range
- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

