

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 5046

1.0 - 2.0 GHz 1.2 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5046 is a 1.2 Watt broadband amplifier that covers the 1.0 - 2.0 GHz 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 5046 comes with an extended multiyear warranty.

CIRCUIT PROTECTIONS

Infinite Load VSWR
 RF Input Overdrive
 Thermal Overload
 Over Current
 Over Voltage

AVAILABLE OPTIONS

- LCD Digital Display
 IEEE-488 GPIB
 Gain Adjustment
 Automatic Level Control
 Extended Temperature Range
 Rear Panel Connectors
 Rack Mounting Slide
- Oifferent Case Styles

ParameterSpecificationElectricalFrequency Range1.0 – 2.0 GHz1Frequency Range1.0 – 2.0 GHz2Saturated Output Power1.2 Watts typical3Power Output @ 1dB Comp.1.0 Watts min4Small Signal Gain+30 dB min5Small Signal Gain Flatness± 1.5 dB max6IP3+40 dBm typical	
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5Small Signal Gain Flatness+6IP3+40 dBm typical	
6 IP ₃ +40 dBm typical	
7 Input VSWR 2:1 max	
8 Harmonics -20 dBc typical @ 1 dB	comp.
9 Spurious Signals > -60 dBc	
10 Input/Output Impedance 50 Ohms nomina	ıl
11 AC Input Power 20 Watts max	
12 AC Input 100 – 240 VAC, single	phase
13 RF Input Overdrive +10 dB over 1 dB Comp	ression
14 RF Input Signal Format CW/AM/FM/PM/Pu	lse
15 Class of Operation A/AB Linear	
Mechanical	
16 Dimensions 19" x 3.5" x 18"	
17 Weight 20 lb. max	
18 Connectors Type-N	
19 Grounding Chassis	
20 Cooling Internal Forced A	ir
Environmental	
21 Operating Temperature 0° C to +50° C	
22 Operating Humidity 95% Non-condensi	ing
23 Operating Altitude Up to 10,000' Above Se	a Level
24 Shock and Vibration Normal Truck Trans	port

