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MODEL 5016ART

0.8 - 2.0 GHz
25 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5016ART is a 25 Watt broadband amplifier that covers the 0.8 – 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 5016ART comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	0.8 – 2.0 GHz
2	Saturated Output Power	25 Watts typical
3	Power Output @ 1dB Comp.	20 Watts min
4	Small Signal Gain	+44 dB min
5	Small Signal Gain Flatness	± 1.5 dB max
6	IP_3	+53 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 20 Watts
9	Spurious Signals	< -60 dBc typical @ 20 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	220 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
Mechanical		
16	Dimensions	19" x 3.5" x 18"
17	Weight	26 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
21	Rack Mountable Slides and Support Bracket	18" slides (37" wingspan)
Environmental		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

CIRCUIT PROTECTIONS

◊ Thermal Overload
◊ Over Current
◊ Over Voltage
◊ Infinite Load VSWR

INCLUDED OPTIONS:

◊ RT - Rear Panel Connectors w/Control Option: IEEE-488, RS-232, and Ethernet Interface

Rack Mountable Slides on Chassis

RE Model Shown

05/11 Approved By: _____ Date: _____