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MODEL 5038-016

1.1 - 1.7 GHz
200 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5038-016 is a 200 Watt broadband amplifier that covers the 1.1 – 1.7 GHz frequency range. This is the perfect choice for a GPS Jamming solution. 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 5038-016 comes with an extended multiyear warranty.

	Parameter	Specification @ 25º C
Electrical		
1	Frequency Range	1.1 – 1.7 GHz
2	Saturated Output Power	200 Watts Minimum
3	Small Signal Gain	+53 dB Minimum
4	Small Signal Gain Flatness	± 1.5 dB max
5	IP_3	+59 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc Typical
8	Spurious Signals	< -60 dBc Typical
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	1000 Watts max
11	AC Input	100 – 240 VAC, single phase
12	RF Input	+10 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
Mechanical		
15	Dimensions	19” x 7” x 20”
16	Weight	57 lb. max
17	Connectors	Type-N
18	Grounding	Chassis
19	Cooling	Internal Forced Air
Environmental		
20	Operating Temperature	0º C to +50º C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000’ Above Sea Level
23	Shock and Vibration	MIL-STD-810F Method 516.5

Specifications subject to change without notice.

CIRCUIT PROTECTIONS

◊ Thermal Overload
◊ Over Current
◊ Over Voltage
◊ VSWR protection

CIRCUIT CONTROL

◊ Standby (amplifier disable)
◊ Gain/power setting with 25dB range
◊ VSWR protection Reset

CIRCUIT INDICATIONS

◊ Forward Power
◊ Reflected power
◊ VSWR Fault
◊ Temp Fault
◊ Gain Setting (VVA) percentage

FE Model Shown

ORDERING MODELS

◊ RE - Rear Panel model with RS232, IEEE, & Ethernet
◊ FE - Front Panel model with RS232, IEEE, & Ethernet

08/10 Approved By: _____ Date: _____