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MODEL 5063A-ODU

0.8 - 2.0 GHz

200 WATTS

LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5063A-ODU is a 200 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.

In addition, the 5063A-ODU is housed in a NEMA 4X rated outdoor enclosure, with an integrated cooling unit to provide full operation even into the most harsh environments.

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 5063A comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	0.8 – 2.0 GHz
2	Saturated Output Power	200 Watts typical
3	Power Output @ 1dB Comp.	150 Watts min
4	Small Signal Gain	+54 dB min
5	Small Signal Gain Flatness	± 2.0 dB max
6	IP ₃	+62 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 150 Watts
9	Spurious Signals	> -60 dBc typical @ 150 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	1500 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
<u>Mechanical</u>		
16	Dimensions (OD Enclosure)	25" W x 16.0"H x 34"D Not including Cooling Unit
17	Weight	200 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<u>Environmental</u>		
21	Operating Temperature	0° C to +65° C
22	Operating Humidity	100% Condensing
23	Enclosure Rating	Class 250 NEMA 4X
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

ORDERING MODELS

- ◇ RE - Rear panel RF connectors with IEEE-488, Ethernet and RS-232
- ◇ FE - Front panel RF connectors with IEEE-488, Ethernet and RS-232

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ VSWR protection
- ◇ RF Output over drive

CIRCUIT INDICATIONS

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

CIRCUIT CONTROL

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 25 dB range
- ◇ VSWR protection Reset
- ◇ ALC On/ Off



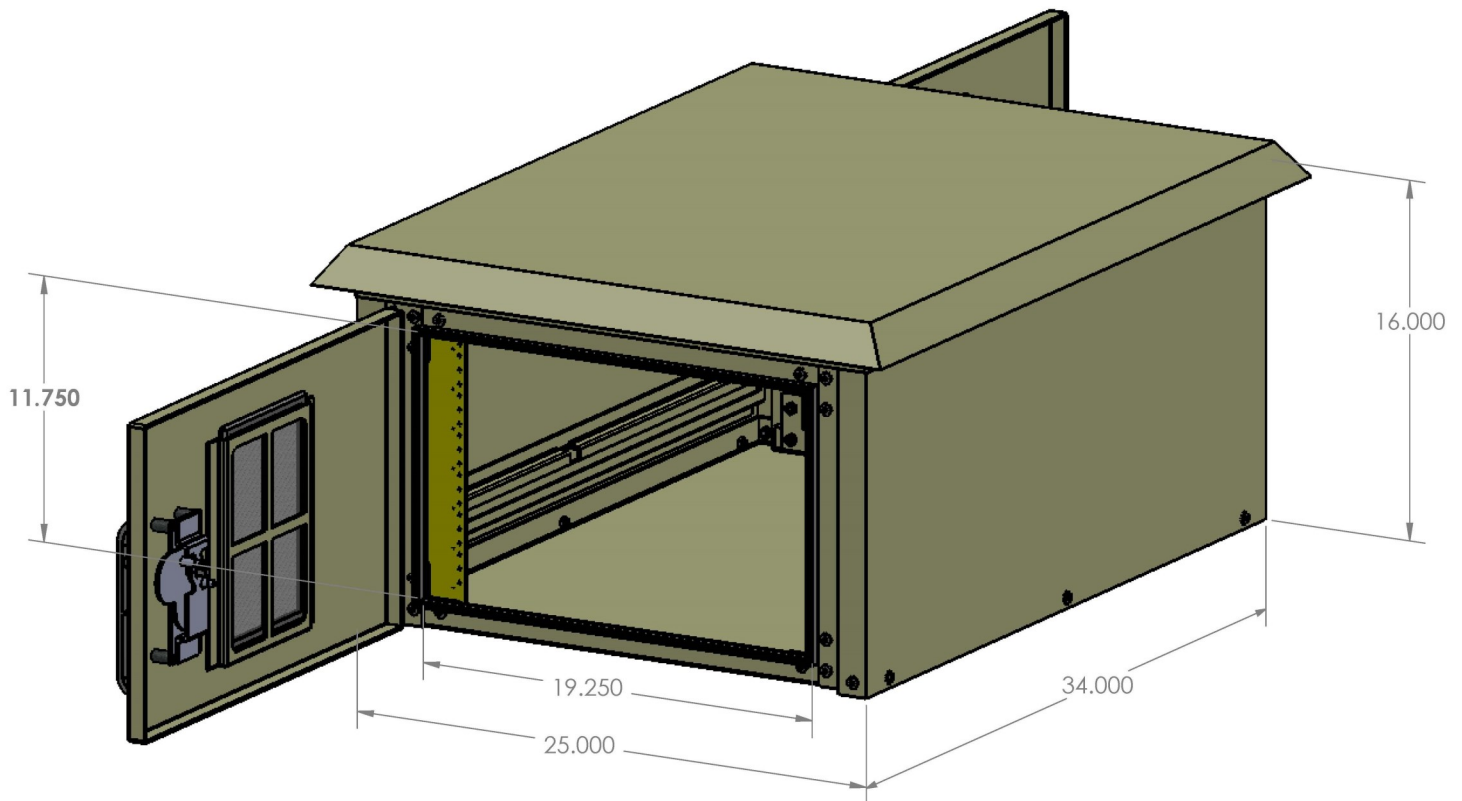
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Enclosure Special Features (May not be Shown)

- ◇ Housed in NEMA 4X rated Outdoor Enclosure
- ◇ Expanded Operating Temperature with integrated Cooling Unit
- ◇ 4" C Channel Rails on bottom of enclosure to keep unit elevated off the ground
- ◇ RoxTec Cable entry system
- ◇ Front and rear access doors
- ◇ Carrying Handles (Recommend 4-Man Lift)

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FE Model Shown