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Elta Specification

2.0 - 2.4 GHz

400 WATTS

Solid State Band-Specific High Power RF Amplifier

The Elta Specification is a 400 Watt band-specific amplifier that covers the 2.0 – 2.4 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 Elta Specification comes with an extended multiyear warranty.

Visual Indicators

- ◇ Forward Power OK
- ◇ Reflected Power OK
- ◇ RF Input Power OK
- ◇ Temperature (HPA) OK
- ◇ Power Supply input/outputs OK

Antenna Switch (two leds)

- ◇ > Installed or Not
- ◇ > Antenna State
- ◇ Protection Activated

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	2.0 – 2.4 GHz
2	Saturated Output Power	400 Watts typical
3	Power Output @ 1dB Comp.	330 Watts min
4	Small Signal Gain	+57 dB min
5	Small Signal Gain Flatness	± .5 dB max
6	Input / Output VSWR	1.5:1 max
7	Harmonics	-70 dBc typical
8	Spurious Signals	> -60 dBc
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	2000 Watts max
11	AC Input	115 VAC 400 HZ 3Ph IAW RTCA/DO-160C section 16 Category A
12	RF Input	+0 dBm
13	RF Input Signal Format	Burst or Continuous Rise/Fall Time < 5 microseconds
14	Class of Operation	A
<u>Mechanical</u>		
15	Dimensions	400mm W, 560mm D, 200mm H
16	Weight	29Kg
17	Connectors	Type-TNC (input) Type-N (Outputs)
18	Grounding	Chassis
19	Cooling	Internal Forced Air
<u>Environmental</u>		
20	Operating Temperature	-40° C to +55° C
21	Operating Humidity	95% Condensing
22	Operating Altitude	Up to 45,000' Above Sea Level
23	Shock and Vibration	Shock: 6G, 11msec, saw tooth, IAW RTCA DO-160D section 7, paragraph 7.2.1 Cat B Vibration Environment IAW RTCA DO-160D section 8, par 8.2.1 Figure 8-1 Curve C