





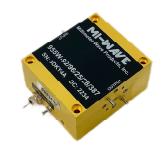
Physical Properties

• Material: 6061 T-6 Aluminum • Finish: Gold Plating

• Dimensions: 2.0 x 1.75 x 1.0 in. • Bias: 16 AWG Wire

• Input Port: WR-10 Waveguide • Flange: UG-387/U-M Flange

• Output Port: WR-10 Waveguide



SN: FHRZ9E *Picture shown is indicative only.5

| Electrical Specifications @ 25°C | | Test Data | | | |
|----------------------------------|---------------------|-----------|-------|-------|------|
| Parameters | Specifications Min. | | Тур. | Max. | Unit |
| Frequency | 92 to 96 | 92 | - | 96 | GHz |
| Gain | 25.0 typ. | 24.0 | 26.0 | 27.3 | dB |
| Psat | +30 typ. | +30.5 | +30.7 | +31.0 | dBm |
| P1dB | +26 typ. | +28.7 | +29.0 | +29.4 | dBm |
| VSWR | 1.92 typ. | - | 1.92 | - | dBm |
| Supply Voltage 1,3 | +6 typ. | +5 | +8 | +10 | Vdc |
| Supply Current | 3.0 typ. | 3.2 | 5.4 | 6.4 | А |

- 1. DC Supply must be able to source at least 9.4A DC at startup.
- 2. Open and short-circuit loads are not recommended at the amplifier output. Ensure proper 50 Ohm load before turning the amplifier "ON".
- 3. Reverse biasing will destroy the amplifier.
- 4. Do not put any foreign objects inside the waveguide. Warranty Void.
- 5. SN or PN may differ from actual unit. Please refer to outline on page 3 for more details.

| Absolute Maximum Ratings | | | |
|---------------------------------|-----------------|--|--|
| Parameter | Ratings | | |
| Operating Temperature | -10°C to +40°C | | |
| Storage Temperature | -40°C to +100°C | | |
| Total Power Dissipation | 35W | | |
| Input Power (CW) | +10dBm | | |
| DC Operating Voltage | +10V | | |

^{*}Permanent damage may occur if any of these are exceeded.

| Biasing Up Procedure | | |
|----------------------|----------------------------|--|
| Step 1 | Connect Ground Pin | |
| Step 2 | Apply DC Supply Voltage | |
| Step 3 | Turn ON RF input | |
| Power Down Procedure | | |
| Step 1 | Turn OFF RF input | |
| Step 2 | Turn OFF DC Supply Voltage | |
| Step 3 | Remove Ground | |

The material presented in this datasheet was current at the time of publication. Mi-Wave's continuing product improvement program makes it necessary to reserve the right to change our mechanical and electrical specifications without notice. If either of these parameters is critical, please contact the factory to verify that the information is current. This material consists of Mi-Wave's general capabilities information and does not contain controlled technical data as defined within the International Traffic in Arms (ITAR) Part 120.10 or Export Administration Regulations (EAR) Part 734.7-11. D-405/05.01.18





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