

SNW-1341341018-08-IO

F Band Waveguide Junction Isolator, 125 to 129 GHz

SNW-1341341018-08-IO is a F band waveguide junction isolator that covers the frequency range of 125 to 129 GHz. Compared with a Faraday isolator, the waveguide junction isolator offers an insertion loss of 1.0 dB typical and a much shorter insertion length for system integration. As a tradeoff, the waveguide junction isolator only offers a nominal isolation of 18 dB. The input and output ports are WR-08 waveguides with UG-387/U-M anti-cocking flange.



Electrical Specifications:

| Parameter | Minimum | Typical | Maximum |
|---------------------------|---------|---------|----------|
| Frequency Range | 125 GHz | | 129 GHz |
| Insertion Loss | | 1.0 dB | 1.5 dB |
| Isolation | | 18 dB | |
| Return Loss | | 16 dB | |
| Forward Power Handling | | | 3 W (CW) |
| Reverse Power Handling | | | 1 W (CW) |
| Specification Temperature | | +25 °C | |
| Operating Temperature | -40 °C | | +85 °C |

Mechanical Specifications:

| Item | Specification |
|---------------|-----------------------------------------------------|
| RF Ports | WR-08 Waveguide with UG-387/U-M Anti-Cocking Flange |
| Body Material | Aluminum |
| Body Finish | Gold Plated |
| Cover Finish | Black Anodized |
| Weight | 0.7 Oz |
| Size | 0.75" (L) x 0.85" (W) x 1.00" (H) |
| Outline | NW-IF-A |

ECCN

EAR99

FEATURES

- Low Insertion Loss
- Moderate Isolation
- Compact Configuration

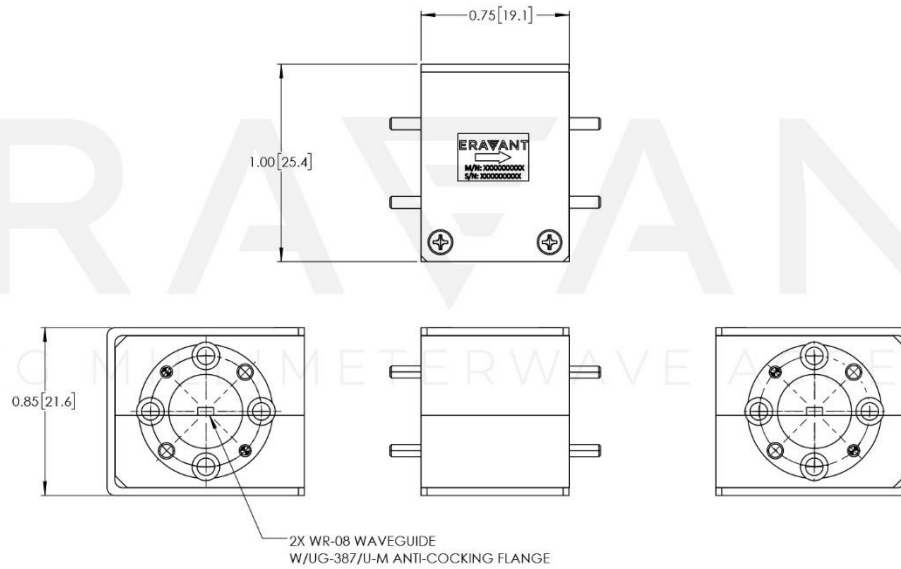
APPLICATIONS

- 5G Systems
- Last Mile Communication Systems
- Port Isolation
- Module Integration

SUPPLEMENTAL DETAILS



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



NOTE:

- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings will damage the device.
- This device is magnetic sensitive. Keep the device at least 6" away from magnetic fields.
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.