

## Ka Band Waveguide Junction Circulator, 33 to 36 GHz

### Description:

**Model SNW-3333630420-28-CE** is a Ka band waveguide junction circulator that covers the frequency range of 33 to 36 GHz. The waveguide junction circulator is designed and manufactured to provide a low insertion loss of 0.4 dB nominal, a typical isolation of 20 dB, and a much shorter insertion length for system integration. The input and output ports are WR-28 waveguides with UG-599/U flanges. The circulator implements a U-shaped magnet shielding steel cover to protect it from magnetic field interference.



### Features:

- Low Insertion Loss
- Moderate Isolation
- Compact Configuration

### Applications:

- Radar Systems
- Module Integration
- Port Isolation

### Electrical Specifications:

| Parameter                 | Minimum | Typical | Maximum   |
|---------------------------|---------|---------|-----------|
| Frequency                 | 33 GHz  |         | 36 GHz    |
| Insertion Loss            |         | 0.4 dB  | 0.6 dB    |
| Isolation                 | 17 dB   | 20 dB   |           |
| Return Loss               |         | 15 dB   |           |
| Power Handling (Forward)  |         |         | 15 W (CW) |
| Power Handling (Reverse)  |         |         | 5 W (CW)  |
| Specification Temperature |         | +25 °C  |           |
| Operating Temperature     | -40 °C  |         | +85 °C    |

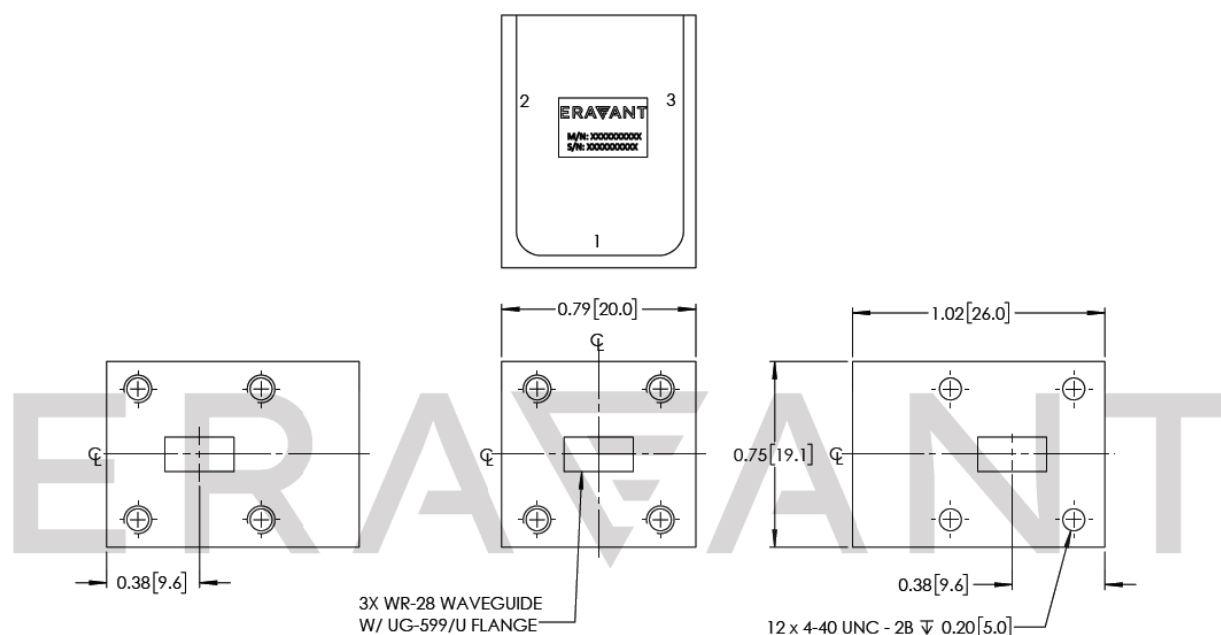
### Mechanical Specifications:

| Item          | Specification                        |
|---------------|--------------------------------------|
| RF Ports      | WR-28 Waveguide with UG-599/U Flange |
| Case Material | Aluminum                             |
| Finish        | Chem Film                            |
| Weight        | 0.8 Oz                               |
| Size          | 0.79" (W) x 1.02" (L) x 0.75" (H)    |
| Outline       | NW-CA-NG1                            |



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**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 of the device will damage the device.
- The device is magnetically sensitive. Keep a safe distance from magnetic fields.
- Any foreign objects in the waveguide will degrade performance and/or damage the device.