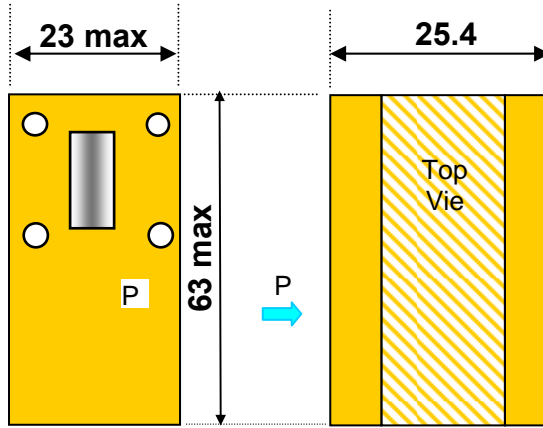


## Waveguide Isolator, 29-36.5GHz, Split Bands WR28 Package / UG599U Flange, 50 Watts Reverse Power, H-Plane



- Flange Hole Options-X**
- 1 8 off 4-40 UNC 2B  
0.17"(4.32) deep
  - 2 4 Thru holes  
0.116/.110 dia +/-0.01;
  - 3 8 off M3 x 5-6H  
(5 pitch, 6H thread class)  
x (6 mm) deep (default)
  - 4 4 x M3 0.5-6H,  
tapped thru
  - 5 4 x M3 0.5-6H,  
tapped thru x2 M3 mounting  
holes in base
  - 6 4 x M2.6 0.5-6H,  
tapped thru x2

**Tolerance:**  
 X ±0.1  
 XX ±0.03  
 XXX ±0.002  
 Material: Aluminum 6061-T6 or  
 equivalent. (Chem. Film / anodyne)

**WR28**  
 7.11 x 3.56mm ± 0.02  
 (0.28 x 0.14)

**Units: mm**  
**Not to**

**Direction of RF:**

|          |                |   |
|----------|----------------|---|
| <b>R</b> | <b>Default</b> | ▶ |
| <b>L</b> |                | ◀ |

**Order Examples: RADI-29-31-WR28-50WR-(60W Fwd)-b**  
**I=ISOLATOR**

Device surface temperature should not be higher than +85C.  
 \* To be mounted on the heatsink

| Specifications        |        |            |            |            |            | Units    |
|-----------------------|--------|------------|------------|------------|------------|----------|
| Frequency             | 29-31  | 29-31      | 30-31*     | 30-31*     | 30-31*     | GHz      |
| Insertion loss        | 0.3    | 0.4        | 0.4        | 0.3        | 0.5        | dB (max) |
| Isolation             | 23     | 20         | 20         | 23         | 18         | dB (min) |
| VSWR                  | 1.15:1 | 1.25:1     | 1.25:1     | 1.15:1     | 1.3:1      | (max)    |
| Rated Power Reverse   | 50     | 50         | 50         | 50         | 50         | Watt     |
| Rated Power Forward   | 60     | 60         | 60         | 60         | 60         | Watt     |
| Operating temperature | Room   | -40 to +70 | -35 to +55 | +15 to +35 | -35 to +85 | °C       |

| Specifications        |             |            |            |  |  | Units    |
|-----------------------|-------------|------------|------------|--|--|----------|
| Frequency             | 31.95-32.05 | 32.5-36.5* | 32.5-36.5* |  |  | GHz      |
| Insertion loss        | 0.3         | 0.4        | 0.4        |  |  | dB (max) |
| Isolation             | 20          | 20         | 18         |  |  | dB (min) |
| VSWR                  | 1.25:1      | 1.25:1     | 1.30:1     |  |  | (max)    |
| Rated Power Reverse   | 50          | 50         | 50         |  |  | Watt     |
| Rated Power Forward   | 50          | 50         | 50         |  |  | Watt     |
| Operating temperature | 0 to +50    | -10 to +60 | -30 to +70 |  |  | °C       |

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### WR28 WG22 R320

Flange connection UG-599/U

#### Dimensional Specify

A = 19,05 mm

E = 6,73 mm

F = 6,35 mm

Holes = 3,00 ±0,02 mm

