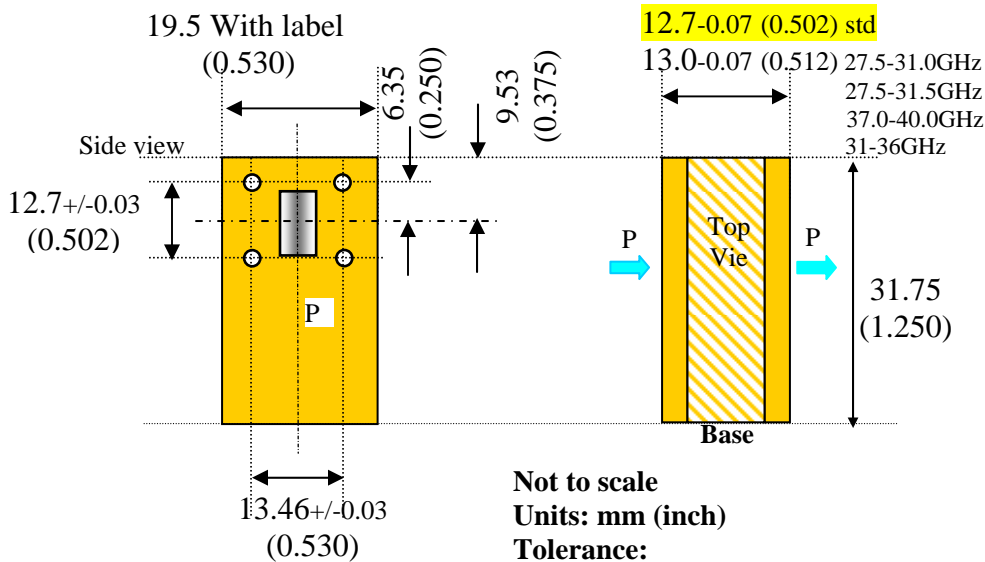


Isolator, Waveguide, WR28, WG22, R320, 26.5-40 GHz Flange UG599/U, RADI-26.5-40.0-WR28-2WR-X (10% or Full band)



- 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;
(2.95+/-0.07mm)
 - 3 8 off M3 x 5-6H
(5 pitch,6H thread class)
x 0.280"(7.1) deep
 - 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
 - 7 4 x M 2.6 Thru
 - 8 4 Thru holes 3.06mm dia
+/-0.025mm (0.120 dia +/-
0.001) default

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

Not to scale
Units: mm (inch)
Tolerance:
XX ±0.03
XXX ±0.002
Material: Aluminum 6061-T6 or
equivalent. (Chem. Film / alodyne)

Specifications	Full Band	Any 10% bandwidth					Units
Frequency	26.5-40.0	26.5-40.0	27.4-29.6	37-40	37-40	29-31	GHz
Insertion loss	0.5	0.25	0.25	0.25	0.3	0.25	dB max
Isolation	16	21	20	19	18/20	20	dB min/typ
VSWR	1.35	1.22Typ, 1.33 Max	1.22	1.3	1.27/1.22	1.25:1	:1 min/typ
Rated power Forward	20	20	20	5/10	1	5 or 10	Watt
Rated power Reverse	0.5, 1, 1.5 or 2	2	1	1	0.5	1or 2	Watt
Operating temperature	-15 to +35	-40 to +85	-30 to +65	-20 to +70	-35to +75	-20 to +70	°C
Storage temperature	-50 to 105	-50 to 105	tba	-50 to 105		-50 to 105	°C
Specification temperature				-30 to 65			

*Note Full band model uses special ferrite and requires extensive tuning,
10-15% bandwidth models are significantly cheaper*



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Isolator, Waveguide, WR28, WG22, R320, 26.5-40 GHz Flange UG599/U, RADI-26.5-40.0-WR28-2WR-X (10% or Full band)

Specifications	Full Band e	Full Band e	Full Band e	Full Band e	Full Band e	Full Band e/b	Units
Frequency	26.5-40.0	26.5-40.0	26.5-40.0	27.0-32.0	27.0-32.0	27.0-32.0	GHz
Insertion loss	0.6	0.5	0.5	0.3	0.3	0.3	dB max
Isolation	16	17	16	20	18	20	dB min
VSWR	1.4	1.35	1.4	1.3	1.3	1.3	:1
Rated power Forward	2	2W	2W	2W	4W	10W	Watt
Rated power Reverse	1.5	1 or 2	0.5, 1 or 2W	1W	2W	2W	Watt
Peak power							Watt
Operating temperature	+15 to +35	+15 to +35	-40 to +85	-30 to +70	-30 to +50	-30 to +50	°C
Storage temperature		-50 to 105	-50 to 105	-50 to 105	-50 to 105	-50 to 105	°C
Altitude				to 15,000	to 15,000	to 15,000	
Humidity				to 95			%

Specifications	Full Band	Full Band e	Full Band	Full Band	Full Band e		Units
Frequency	27-31	27.35-29	27.5-31.0	27.5-31.5	28.5-31.5	29.4-31.5	GHz
Insertion loss	0.5	0.25	0.3	0.3	0.25	0.4	dB max
Isolation	19	21	18	18	20	20	dB min
VSWR	1.3	1.25	1.35 max 1.22 typ	1.35 max 1.22 typ	1.3	1.25	:1
Rated power Forward	1	1	4W	2W	2W	5W	Watt
Rated power Reverse	0.5	0.5	2W	1W	2W	2W	Watt
Peak Power							
Operating temperature	-30 to +65	-30 to +80	-20 to +70	-35 to +70	-40 to +80	-40 to +85	°C
Storage temperature						-50 to 120	°C
Altitude							
Humidity			up to 95	up to 95			%



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Isolator, Waveguide, WR28, WG22, R320, 26.5-40 GHz Flange UG599/U, RADI-26.5-40.0-WR28-2WR-X (10% or Full band)

Specifications	Full Band e	Full Band e	Full Band e	Full Band e	Full Band e	Full Band e/b	Units
Frequency	30-31	30-31	31-36	32.5-37.5	32.5-37.5	33-35	GHz
Insertion loss	0.25	0.3	0.5	0.3	0.5	0.3	dB max
Isolation	21	20	20	20	17	20	dB min
VSWR	1.20 ¹	1.25	1.22	1.25	1.35	1.25	:1
Rated power Forward	20	2W	1	4	4	2	Watt
Rated power Reverse	2W	2W	1	4	4	2	Watt
Peak power						5W/100ns/ 1kHz	Watt
Operating temperature	-40 to+85	-35 to +70	+15 to +35	+15 to +35	-20 to +70	-30 to +70	°C
Storage temperature	-50 to+105					-50 to 105	°C
Altitude							
Humidity							%

Specifications	Full Band e	Full Band e	Full Band e	Full Band e	Full Band e	Full Band e/b	Units
Frequency	33-37	33.25-36.75	33.5-36.0	33.5-36.0	34.0-35.0	34.9-35.6	GHz
Insertion loss	0.25	0.3	0.25	0.3	0.25	0.25	dB max
Isolation	21	20	21	20	21	21	dB min
VSWR	1.20	1.25	1.22	1.25	1.2	1.23	:1
Rated power Forward	2W	2W	20W	2	1	2W	Watt
Rated power Reverse		2W	2W	2	1	2W	Watt
Peak power					-35 to +70		Watt
Operating temperature	-40 to +85	-30 to +65	-40 to +85	-30 to +70		-40 to+85	°C
Storage temperature	-50 to 105	-50 to 105	-50 to 105			-50 to 105	°C
Altitude							
Humidity							%

¹ VSWR 1:1.20 (-30 to 65C), 1.22 (-40 to 85C)

**Isolator, Waveguide,
WR28, WG22, R320, 26.5-40 GHz Flange UG599/U,
RADI-26.5-40.0-WR28-2WR-X (10% or Full band)**

Specifications	Full Band e	Full Band e	Full Band e	Full Band e	Full Band e	Full Band e/b	Units
Frequency	34-36	37.5-39.0	38-40				GHz
Insertion loss	0.3	0.4	0.4				dB max
Isolation	20	20	20				dB min
VSWR	1.25	1.3	1.3				:1
Rated power Forward	2	2	1				Watt
Rated power Reverse	1	2	1				Watt
Peak power	-30 to +75	-30 to +65	-30 to +65				Watt
Operating temperature							°C
Storage temperature							°C
Altitude							
Humidity							%

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

