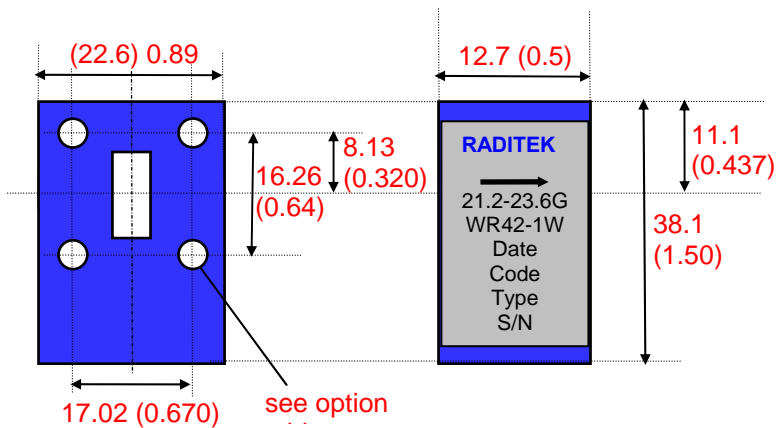


Waveguide Isolator, 17.7-26.5GHz, WR42, Split Bands SLIM Model, 10% Bandwidth, 0.5-10Watts Reverse Power



Tolerance Table Metric (inch)
(unless otherwise stated):

- Hole diameter +/- 0.1mm, (+/- 0.004")
- Dimensions (w*h) +/- 0.3 mm, (+/- 0.015")
- Waveguide Slot Position, +/- 0.1mm, (+/- 0.04")
- Dimensions (hole position) +/- 0.1mm, (+/- 0.04")

Machined surfaces

- Flatness 0.025/mm, (0.001/ inch)
- Bend radius 0.8mm, (0.031" or 1/32")

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)x0.280"(7.1) deep
- 4 4 x M3 0.5-6H,
tapped thru

Units: mm(Inches)
Not to scale
Slim model 0.5"
between flanges

WR42
10.67 x 4.32 ± 0.005
(0.420 x 0.170 ± 0.003)

Direction of RF:

R	Default	▶
L		◀

Order Examples: **RADI-24-26-WR42-5WR-1-b**
I=ISOLATOR

Specifications						Units
Frequency	Any 10% Bandwidth	24.0-26.0	22.0-26.5	21.2 to 23.6	23.7-23.9	GHz
Insertion loss	0.3	0.3	0.3	0.25	0.25	dB maximum
Isolation	18	18	18	20	22	dB minimum
VSWR	1.3:1	1.3:1	1.3:1	1.25:1	1.13:1 (in) 1.17:1 (out)	
Power Forward	5	5	5	5	2	Watt minimum
Power Reverse (Load)	2 or 5	1, 2 or 5	2 or 5	2 or 5	1	Watt minimum
Operating temperature	-35 to +80	-35 to +80	-35 to +80	-30 to +75	0 to +60	°C

Altitude	to 15,000	feet
Humidity	to 95	%
Vibration		G max (sine)
Shock		G max ETS-019-1-4
Leakage		dBc

Waveguide Isolator, 17.7-26.5GHz, WR42, Split Bands SLIM Model, 10% Bandwidth, 0.5-10Watts Reverse Power

Specifications						Units
Frequency	17.7-20.0	18.335-20.265	19.5-20.5	19.5-20.5	20.2 to 21.2	GHz
Insertion loss	0.3	0.3	0.3	0.4	0.3	dB maximum
Isolation	18	19	20	20	20	dB minimum
VSWR	1.3:1	1.25	1.3:1	1.22:1	1.25:1	max
Power Forward	5	1	5	1	10	Watt minimum
Power Reverse (Load)	2 or 5	1	2 or 5	1	0.5	Watt minimum
Operating temperature	-35 to +80	-30 to +70	-35 to +80	-35 to +80	-30 to +75	°C

Specifications				e		Units
Frequency	20.0-21.5	20.0-22.0	21.85-24.15	21.2 to 23.6	21.2 to 23.6	GHz
Insertion loss	0.3	0.25	0.3	0.25	0.25	dB maximum
Isolation	18	20	20	20	20	dB minimum
VSWR	1.22:1	1.25:1	1.20:1	1.25:1	1.25:1	
Power Forward	30	100	10	1	10	Watt minimum
Power Reverse (Load)	3	10	0.5	1	2 or 5	Watt minimum
Waveguide Flange				UG- 595/U		
Operating temperature	-30 to +65	-35 to +80	-30 to +75	-30 to +75	-30 to +75	°C

Specifications						Units
Frequency	24.8-25.2	24.0-26.5	24.25-26.25			GHz
Insertion loss	0.3	0.3	0.3			dB maximum
Isolation	20	20	20			dB minimum
VSWR	1.2:1	1.20:1	1:18 max 1.15 Typical			
Power Forward	20	10	10			Watt minimum
Power Reverse (Load)	5	0.5	0.5			Watt minimum
Operating temperature	-30 to +75	-30 to +75	-30 to +75			°C

Waveguide Isolator, 17.7-26.5GHz, WR42, Split Bands SLIM Model, 10% Bandwidth, 0.5-10Watts Reverse Power

Specifications				RW proposed	RW/RCS proposed	Units
Frequency	17.7-19.7	17.7-19.7	24.0-26.5	24.25-26.25	24.25-26.6	GHz (full band)
Bandwidth	28MHz					
Insertion loss	0.25	0.3	0.3	0.3	0.3	dB maximum
Isolation	22	18	20	20	20	dB minimum
VSWR	1.20:1	1.3:1	1.20:1	1:18 max 1.15 Typical	1.2 max 1.15 Typical	
Power Forward	2	10	10	10	10	Watt minimum
Power Reverse (Load)	2	1	0.5	0.5	0.5	Watt minimum
Waveguide Flange	UG595/U					
Operating temperature	-30 to +65	-30 to +75	-30 to +75	-30 to +75	-30 to +75	°C
Altitude		to 15,000	to 15,000	to 15,000	to 15,000	feet
Humidity		to 95	to 95	to 95	to 95	%
Vibration			1			G max (sine)
Shock			25			G max ETS-019-1-4
Leakage			-60			dBc