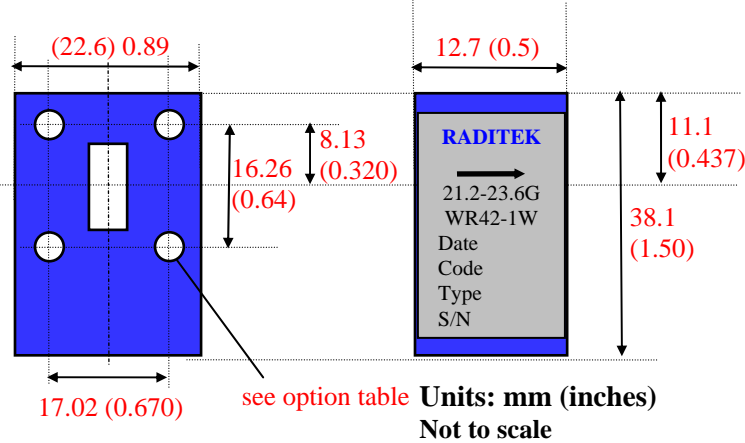


RADITEK, INC.

RADI-17.7-26.5 -WR42-0.5W –SLIM-0pt # (Part bandwidth) Waveguide Isolator 17.7 to 26.5 GHz

Slim model 0.5" between flanges



WR42 Slot

4.32±0.003 x 10.67±0.005 mm
(0.75 x 0.375) ±0.003



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 0.280"(7.1)
deep
- 4 4 x M3 0.5-6H,
tapped thru

Isolator specifications:

Frequency	Any 10% Bandwidth	24.0-26.0	22.0-26.5	21.2 to 23.6	Units
					GHz
Insertion loss	0.3	0.3	0.3	0.25	dB maximum
Isolation	18	18	18	20	dB minimum
VSWR	1.3:1	1.3:1	1.3:1	1.25:1	
Power Forward	5	5	5	5	Watt minimum
Power Reverse (Load)	2 or 5	1, 2 or 5	2 or 5	2 or 5	Watt minimum
Waveguide interface type	WR42	WR42	WR42	WR42	
Operating temperature	-35 to +80	-35 to +80	-35 to +80	-30 to +75	°C

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

1/06/04

Note Full band model uses special ferrite and requires extensive tuning. 10-15% bandwidth models are significantly cheaper
RADI-17.7-26.5-WR42-Slim Specifications may be subject to change

					Units
Frequency	17.7-20.0	19.5-20.5	20.0-22.0	21.2 to 23.6	GHz
Insertion loss	0.3	0.3	0.25	0.25	dB maximum
Isolation	18	20	20	20	dB minimum
VSWR	1.3:1	1.3:1	1.25:1	1.25:1	
Power Forward	5	5	100	10	Watt minimum
Power Reverse (Load)	2 or 5	2 or 5	10	2 or 5	Watt minimum
Waveguide interface type	WR42	WR42	WR42	WR42	
Operating temperature	-35 to +80	-35 to +80	-35 to +80	-30 to +75	°C

Isolator specifications				RW proposed	RW/RCS proposed	Units
Frequency	20.2 to 21.2	17.7 to 19.7	24.0-26.5	24.25-26.25	24.25-26.6	GHz (full band)
Insertion loss	0.3	0.3	0.3	0.3	0.3	dB maximum
Isolation	20	18	20	20	20	dB minimum
VSWR	1.25:1	1.3:1	1.20:1	1:18 max 1.15 Typical	1.2 max 1.15 Typical	
Power Forward	10	10	10	10	10	Watt minimum
Power Reverse (Load)	0.5	1	0.5	0.5	0.5	Watt minimum
Waveguide interface type	WR42	WR42	WR42	WR42	WR42	
Operating temperature	-30 to +75	-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	to 15,000	feet
Humidity	to 95	to 95	to 95	to 95	to 95	%
Vibration			1			G max (sine)
Shock			25			G max ETS-019-1-4
Leakage			-60			dBc

1/06/04

Note Full band model uses special ferrite and requires extensive tuning, 10-15% bandwidth models are significantly cheaper
RADI-17.7-26.5-WR42-Slim Specifications may be subject to change