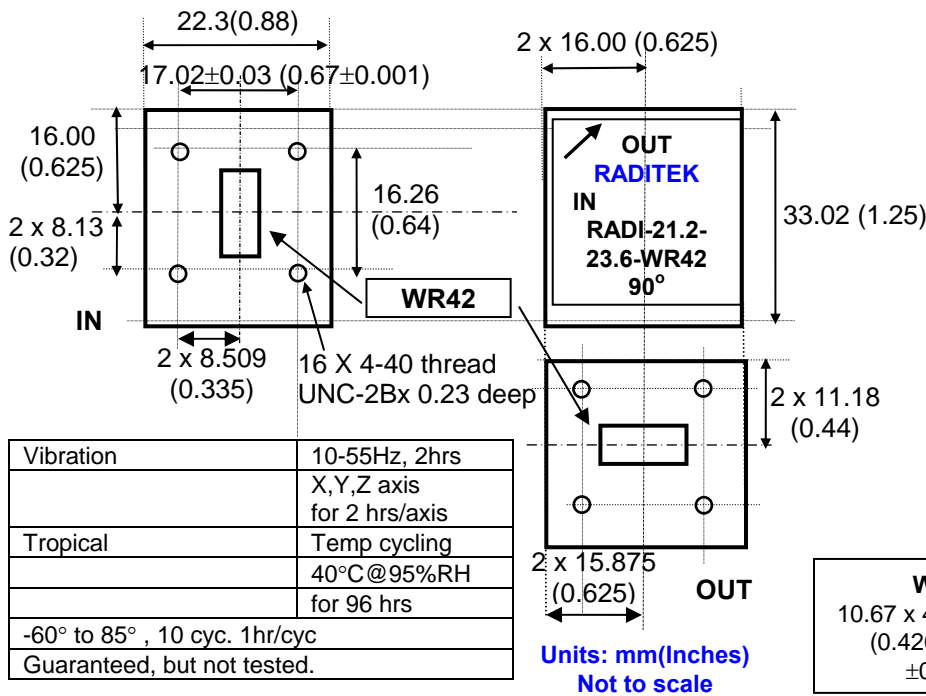


Waveguide Isolator, 21.2-23.6GHz, WR42, 90° 0.5Watts Reverse Power



<u>Tolerance Table Metric (inch)</u> <u>(unless otherwise stated):</u>	
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")
<u>Machined surfaces</u>	
Flatness	0.025/mm, (0.001/ inch)
Bend radius	0.8mm, (0.031" or 1/32")

<u>Hole Options-X</u>	
-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

Vibration	10-55Hz, 2hrs X,Y,Z axis for 2 hrs/axis
Tropical	Temp cycling 40°C@95%RH for 96 hrs
-60° to 85° , 10 cyc. 1hr/cyc	
Guaranteed, but not tested.	

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

Units: mm(Inches)
Not to scale

<u>Direction of RF:</u>	
R	Default ▶
L	◀

Alodined Aluminum or brass-Silver plated
(7µm thick)
Screws on termination are captivated with epoxy or equivalent
All waveguide surfaces are: 0.051 (0.002)

Order Examples: **RADI-21.2-23.6-WR42-0.5WR-1-b**
I=ISOLATOR

Specifications		Units
Frequency	21.2-23.6 GHz	-003
Insertion loss	0.3	dB maximum
Isolation	18	dB minimum
Return loss	20	dB minimum
Rated power options	0.5 cw	Watt minimum
Waveguide interface type	WR42	
Operating temperature	-30 to +80	°C

Packaging	Marking	
Must withstand shipment by common carrier. Items must stay unchanged when shipped.	All units must be marked as shown above, with dash number, -003	An Arrow should be included to show direction (AS SHOWN)