

## Waveguide Isolator, WR10, 80-103GHz, Split Bands UG387/U Flange, 0.2-2Watts Reverse Power

### WR10 coverage is 75-110GHz

The dimensions are the same on the A, B surfaces.

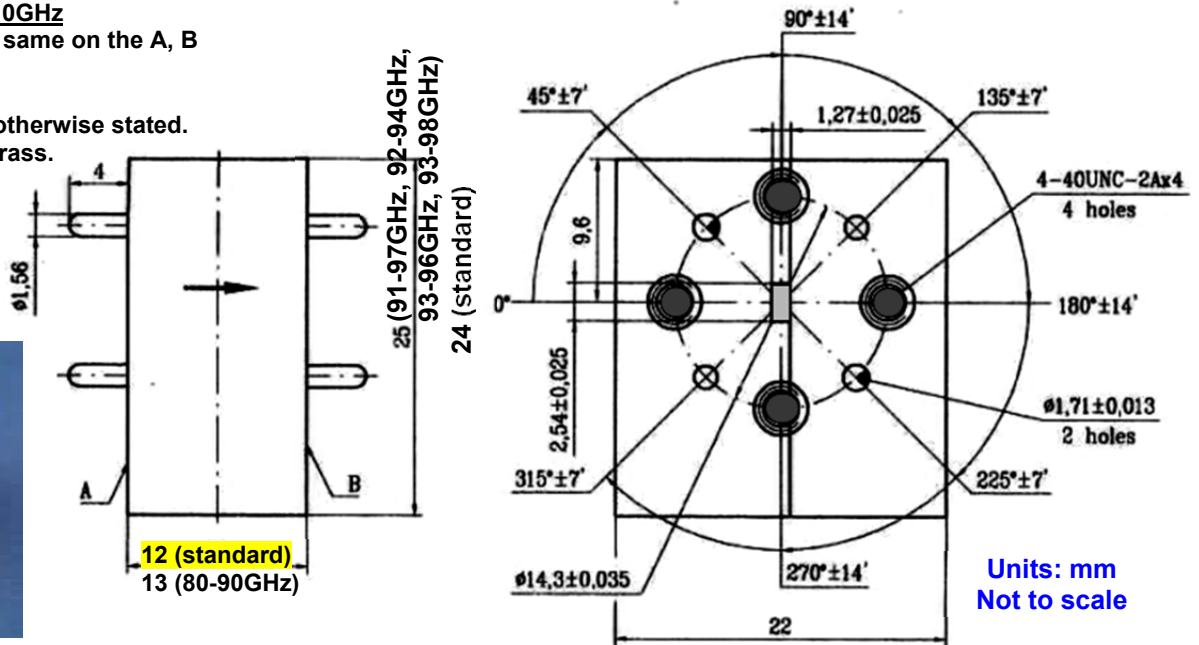
Units: mm.

Tolerance:  $\pm 0.2$  unless otherwise stated.

Material: Silver plated brass.

#### WR10

2.54 x 1.27mm  
(0.1 x 0.05)



#### Direction of RF:

R	Default	▶
L		◀

Order Examples: **RADI-89.5-94.5-WR10-UG387/U-0.5WR-b**  
I=ISOLATOR

Specifications	80-90		89.5-94.5	89-97	89-97 (-5585)	Units
Frequency	80-90		89.5-94.5	89-97	89-97 (-5585)	GHz
Bandwidth	5.0		5.0	10	10	GHz
Insertion loss	0.5@ RT	0.7@ OT	1.5	0.5	0.7	dB max
Isolation	18@ RT	16@ OT	12	18	16	dB min
VSWR	1.3@ RT	1.4@ OT	1.7	1.7	1.4	
Waveguide Flange	UG387/U		UG387/U	UG387/U	UG387/U	
Rated power Forward	10		10	10	10	Watts Peak Watts Avg.
	1		0.5	0.5	0.5	
Rated power Reverse	10		10	10	10	Watts Peak Watts Avg.
	1		0.5	0.5	0.5	
Op. Temp.	-30 to +70		0 to 50	0 to 50	-55 to +85	°C
Non Op. Temp.	-55 to 80		-55 to 80	-55 to 80		°C
Vibration	3G @ +50 °C		3G @ +50 °C	3G @ +50 °C		5 to 500 Hz sinewave
Shock (6 ms)	6G op., 15G non op.		6G op., 15G non op.	6G op., 15G non op.		5 to 500 Hz sinewave
Humidity	95% op, 60% non op.		95% op, 60% non op.	95% op, 60% non op.		at 50 °C
Dimensions				12 x 25 x 22	12 x 24 x 22	

## Waveguide Isolator, WR10, 80-103GHz, Split Bands UG387/U Flange, 0.2-2Watts Reverse Power

Specifications	89-97 (-5585)		86-92	90-98	91-97	Units
Frequency	10		Full (4)	8	6	GHz
Bandwidth	10		Full (4)	8	6	GHz
Insertion loss	0.7	0.6	0.6	0.5		dB max
Isolation	15	18	18	19		dB min
VSWR	1.50 :1	1.30:1	1.30:1	1.25:1		
Waveguide Flange	UG387/U		-	UG387/U	UG387/U	
Rated power Forward	10		1	5	5.0	Watts Peak Watts Avg.
	2					
Rated power Reverse	10		1	1	0.1	Watts Peak Watts Avg.
	2					
Op. Temp.	-40 to +50	-40 to 50	-40 to +50			°C
Non Op. Temp.			-			°C
Vibration			-			5 to 500 Hz sinewave
Shock (6 ms)			-			5 to 500 Hz sinewave
Humidity			-			at 50 °C
Dimensions	12 x 25 x 22		12x25x22	12 x 25 x 22	12 x 25 x 22	

Specifications	90-96	92-96	93-98	93.5-94.5	Units
Frequency	6	4	5	1	GHz
Bandwidth	6	4	5	1	GHz
Insertion loss	0.6	0.4	0.7	0.4	dB max
Isolation	18	20	18	20	dB min
VSWR	1.30:1	1.25:1	1.30:1	1.25:1	
Waveguide Flange	UG387/U	UG387/U	UG387/U	UG387/U	
Rated power Forward	0.5	1.0	1.0	10	Watts Peak Watts Avg.
	0.5	0.2	0.2	0.5	
Rated power Reverse	0.5	1.0	1.0	10	Watts Peak Watts Avg.
	0.5	0.2	0.2	0.5	
Op. Temp.	-40 to +50	-30 to +60	-10 to +60	-30 to +70	°C
Non Op. Temp.		-55 to 80		-55 to 80	°C
Vibration		3G @ +50 °C		3G @ +50 °C	5 to 500 Hz sinewave
Shock (6 ms)		6G op., 15G non op.		6G op., 15G non op.	5 to 500 Hz sinewave
Humidity		95% op, 60% non op.		95% op, 60% non op.	at 50 °C
Dimensions	12 x 25 x 22		12 x 25 x 22		mm

Specifications	92-94	93-96	93.2-96.8	-M1	93.5-95.5	93-97	97-103	Units
Frequency	2	2	3.6	3.6	2	4	6	GHz
Bandwidth	2	2	3.6	3.6	2	4	6	GHz
Insertion loss	0.4	0.4	0.5	0.4	0.4	0.5	<0.5	dB max
Isolation	20	20	20	20	20	20	>19	dB min
VSWR	1.20:1	1.20:1	1.25:1	1.25:1	1.20:1	1.25:1	1.25	
Waveguide Flange	UG387/U	UG387/U	UG387/U	UG387/U	UG387/U	UG387/U	UG387/U	
Rated power Forward	0.5	1	2	2	0.5 or 1	2	5	Watts
Rated power Reverse	0.5	1	2	2	0.5 or 1	2	0.1	Watts
Op. Temp.	-10 to +60	-10 to +60	-10 to +60	-10 to +60	-10 to +60	-10 to +60		
Dimensions	12 x 25 x 22	12 x 25 x 22	12 x 25 x 22	12 x 25 x 22 Approx. Wt. 44g	12 x 25 x 22	12 x 25 x 22	12 x 25 x 22	mm