

Waveguide Junction Isolator

23-25GHz/0.3dB, Insertion Loss/20dB, Isolation

Model: TLJI-023025-42

The TLJI-023025-42 is a waveguide junction isolator that operates from 23 to 25 GHz. The isolator offers 20 dB minimum isolation and 0.3dB maximum insertion loss. The input and output ports are WR-42 waveguides.

Features:

- Frequency range: 23-25GHz
- High Isolation
- Compact Form Factor
- Resistant to Stray Magnetic Fields

Applications:

- Test Lab
- Sub-assemblies
- Test Instrumentations

Electrical Characteristics:

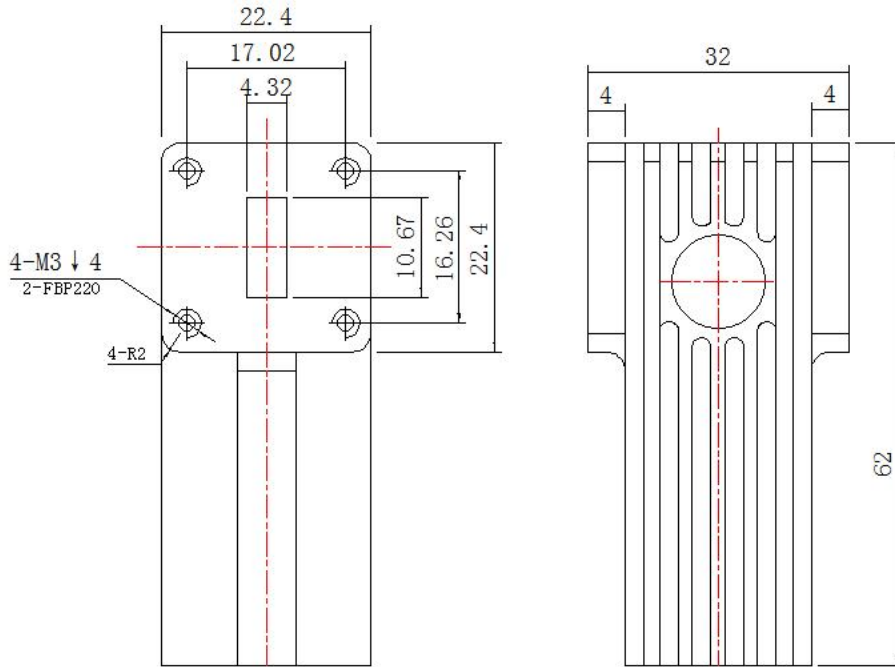
Parameter	Min	Typ	Max	Units
Frequency range	23		25	GHz
Insertion Loss			0.3	dB
Isolation	20			dB
VSWR			1.25	:1
Power Handling	Forward: 200; Reverse: 30			W

Mechanical Specifications:

Parameter	Value	Units
Operating Temperature	-40~+70	°C
Input /Output Connector	WR-42/UG-595/U	
Material	Aluminum	
Finish	True color conductive oxidation, spray ice gray paint	

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

Base Number	Description	Revision
TLJI-023025-42	Waveguide Junction Isolator, 23-25GHz, Insertion loss: 0.3dB, Port Isolation: 20dB	Rev.1.0