

Waveguide Faraday Isolator

140-220GHz/3.8dB, Insertion Loss/18dB, Isolation

Model: TLI-140220-05

The TLI-140220-05 is a waveguide faraday isolator that operates from 140 to 220 GHz. The isolator offers 18 dB minimum isolation and 3.5 dB maximum insertion loss. The input and output port configuration offers an inline structure with WR-5.1 waveguides and UG-387/U-M anti-cocking flanges.

Features:

- Frequency range: 140-220GHz
- High Isolation
- Compact Form Factor
- Resistant to Stray Magnetic Fields

Applications:

- Test Lab
- Sub-assemblies
- Test Instrumentations

Electrical Characteristics:

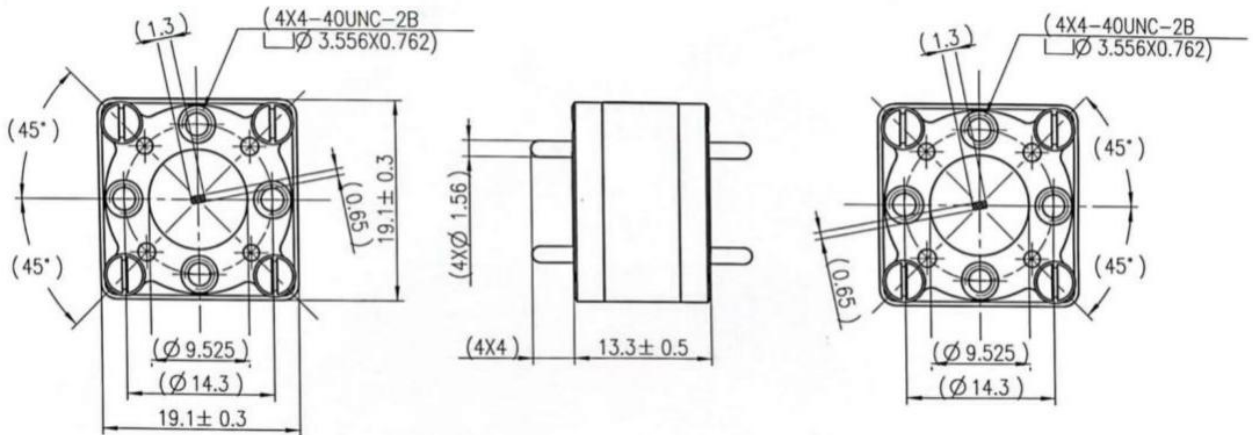
Parameter	Min	Typ	Max	Units
Frequency range	140		220	GHz
Insertion Loss			3.5	dB
Isolation	18			dB
VSWR			1.55	:1
Direction		1→2		

Mechanical Specifications:

Parameter	Value	Units
Operating Temperature	25	°C
Input /Output Connector	WR-5.1/UG-387/U	

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



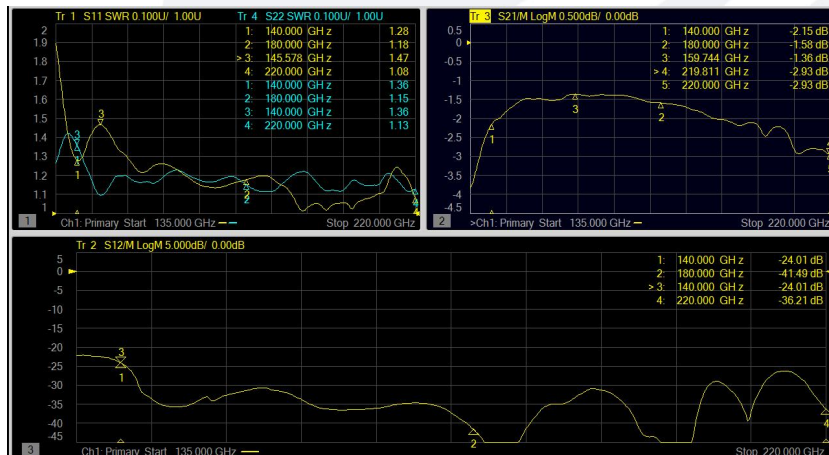
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

Base Number	Description	Revision
TLI-140220-05	Waveguide Faraday Isolator, 140-220GHz, Insertion loss: 3.5dB, Port Isolation: 18dB	Rev.1.0

Typical Performance Data:

VSWR&Insertion Loss&Isolation vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.