

Waveguide Bandpass Filter

WR-08/100-115GHz

Model: TLBF-100G115G-40

TLBF-100G115G-40 is a waveguide bandpass filter with a passband frequency from 100 to 115 GHz and a rejection frequency from 90 to 97GHz and 123 to 140GHz. The nominal insertion loss of the filter is 1.0 dB and the typical rejection is 40 dB.

Features:

- Passband Frequency Range 100 to 115GHz
- Lower Cost
- Low Insertion Loss
- High Rejection

Applications:

- Communicatin Systems
- Radar Systems
- Sub-assemblies

Electrical Characteristics:

Parameter		Min	Typ	Max	Units
Passband Frequency range		100		115	GHz
Passband Width			15		GHz
Passband Ripple				1.5	dB
Passband Insertion Loss			1		dB
Rejection	@90-97GHz	40			dBc
	@123-140GHz	40			
Approximate 3dB Bandwidth		99		117	GHz
Ruturn Loss			-20		dB

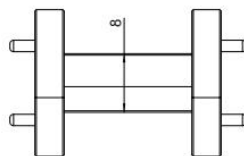
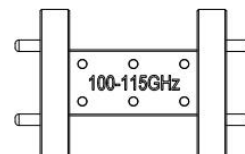
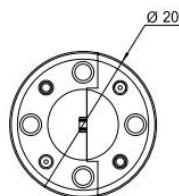
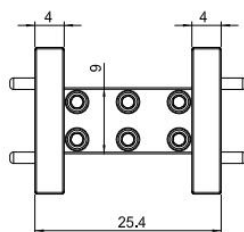
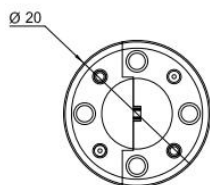
Envrionmental And Physical Characteristics:

Description	Parameter	Units
Operating Temerature	-40 To +85	°C
Storage Temerature	-55 to +125	°C
Material	Copper	
Finish	Gold Plated	
Waveguide	WR-08/UG-387/U-M	
Size	ø20*25.4	mm

Outline Drawing:

Unit:mm

Regulatory Compliance:



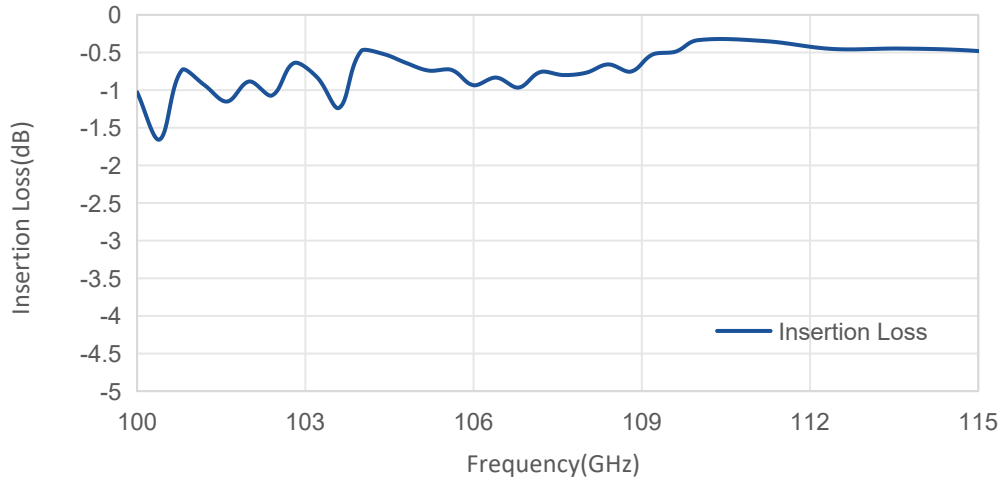
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

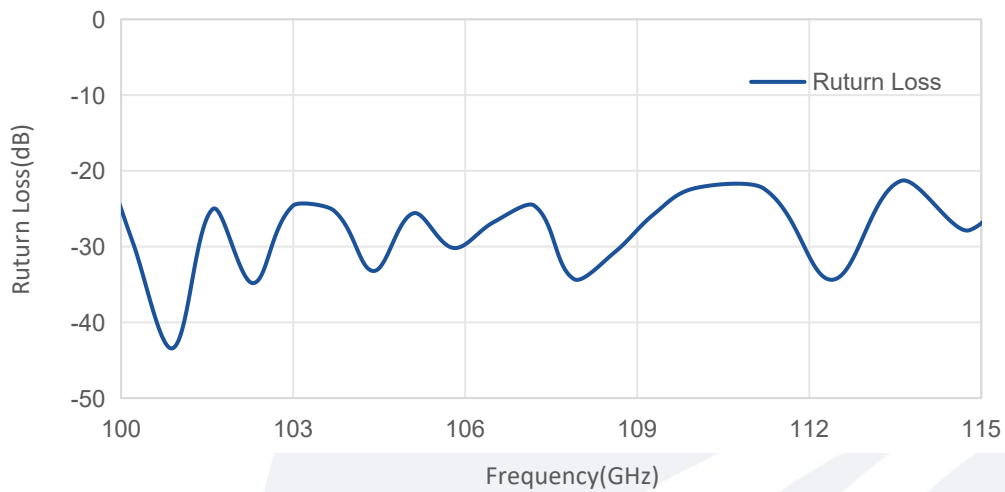
Base Number	Description	Revision
TLBF-100G115G-40	Waveguide Bandpass Filter,100-115GHz,Insertion Loss:1.0dB, Rejection:40dB@90-97GHz&123-140GHz,WR-08/UG-387/U-M	Rev.1.1

Typical Performance Data:

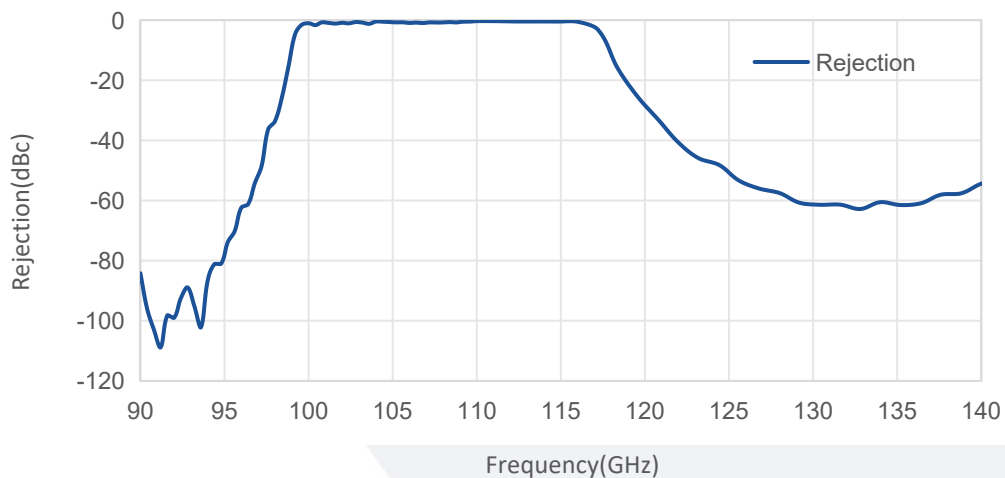
Insertion Loss vs Frequency



Return Loss vs Frequency



Rejection 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.