

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

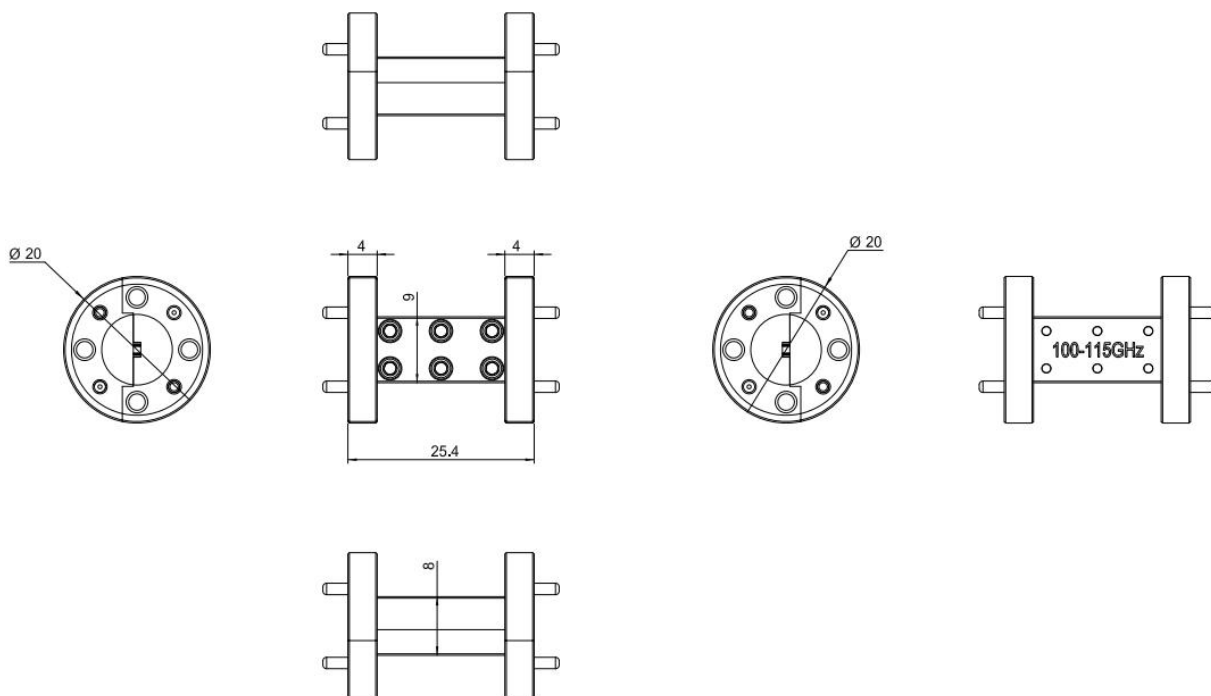
电气特性 Electrical Characteristics:

参数 Parameter		Min	Typ	Max	单位 Units
通带频率范围 Passband Frequency range		100		115	GHz
通带带宽 Passband Width			15		GHz
带内纹波 Passband Ripple				1.5	dB
通带插损 Passband Insertion Loss			1		dB
带外抑制 Rejection	@90-97GHz	40			dBc
	@123-140GHz	40			
3dB带宽 Approximate 3dB Bandwidth		99		117	GHz
回波损耗 Return Loss			-20		dB

环境和机械特性 Envrionmental And Physical Characteristics:

类型 Description	参数 Parameter	单位 Units
操作温度 Operating Temerature	-40 To +85	℃
存储温度 Storage Temerature	-55 to +125	℃
材质 Material	Copper	
表面处理 Finish	Gold Plated	
波导 Waveguide	WR-08/UG-387/U-M	
尺寸 Size	ø20*25.4	mm

外形图 Outline Drawing: Unit:mm



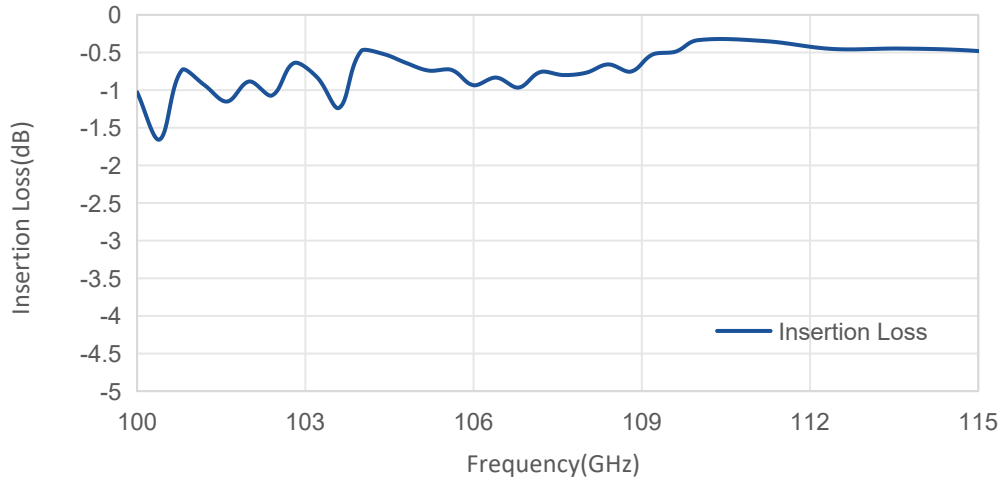
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

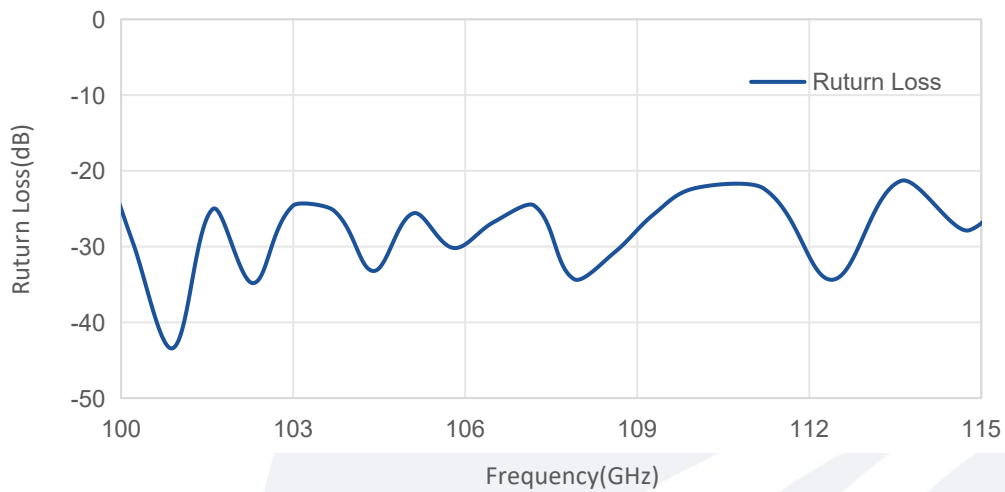
标准型号 Base Number	描述 Description	版本号 Revision
TLBF-100G115G-40	Waveguide Bandpass Filter,100-115GHz,Insertion Loss:1.0dB, Rejection:40dB@90-97GHz&123-140GHz,WR-08/UG-387/U-M	Rev.1.1

典型曲线 Typical Performance Data:

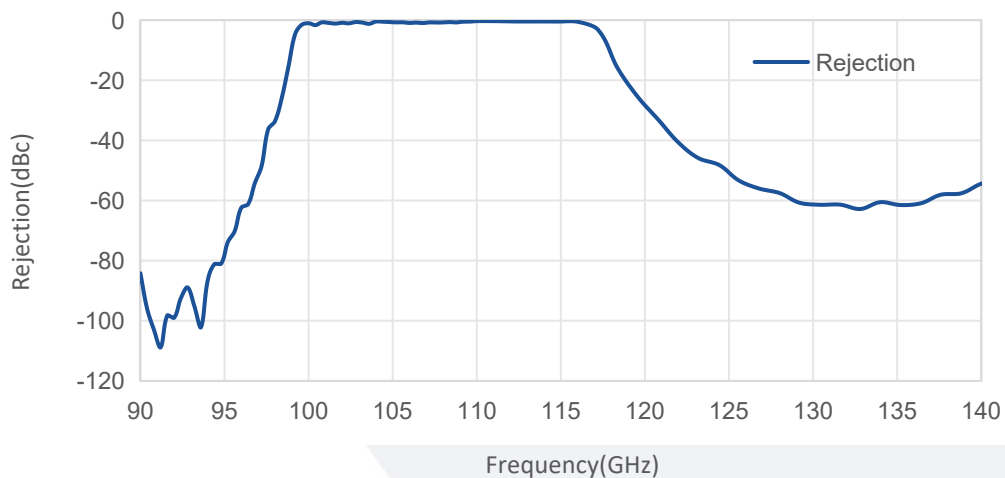
Insertion Loss vs Frequency



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.