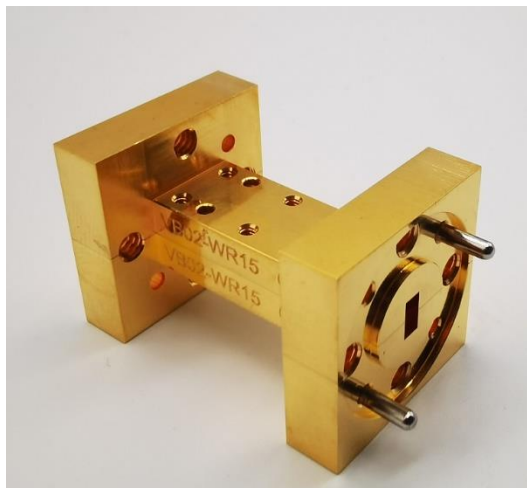


AT-BPF-4757-15A: 47-57GHz Band-Pass Filter, WR-15



Product Overview

AT Microwave offers high performance band waveguide band-pass filter from 26.5-230GHz. Other frequency bands and rejection requirement can provide according to request.

Based on our excellent design work, precise machine tolerance and outstanding quality plating, we can provide band pass filter with low insertion loss, good return loss and high rejection at the same time.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Low Insertion Loss
- ✓ Good Return Loss
- ✓ High Stop Band Suppression
- ✓ Sharp Roll-Off

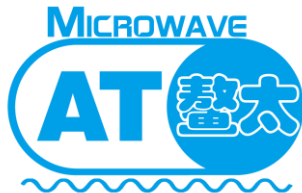
Application

- ✓ Automotive Radar Test
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

Parameter	Min	Typical	Max
Passband Frequency		47-57GHz	
Insertion Loss		-0.8 dB	-1.5dB
Passband Return Loss		-15 dB	
Low Rejection Frequency		DC-43GHz	
Low Band Rejection	-30dB	-40 dB	
High Rejection Frequency		62-75GHz	
High Band Rejection	-30dB	40 dB	
Spec Temp		25C	





AT-BPF-4757-15A

V Band Waveguide Band-Pass Filter, WR-15

Mechanical Information

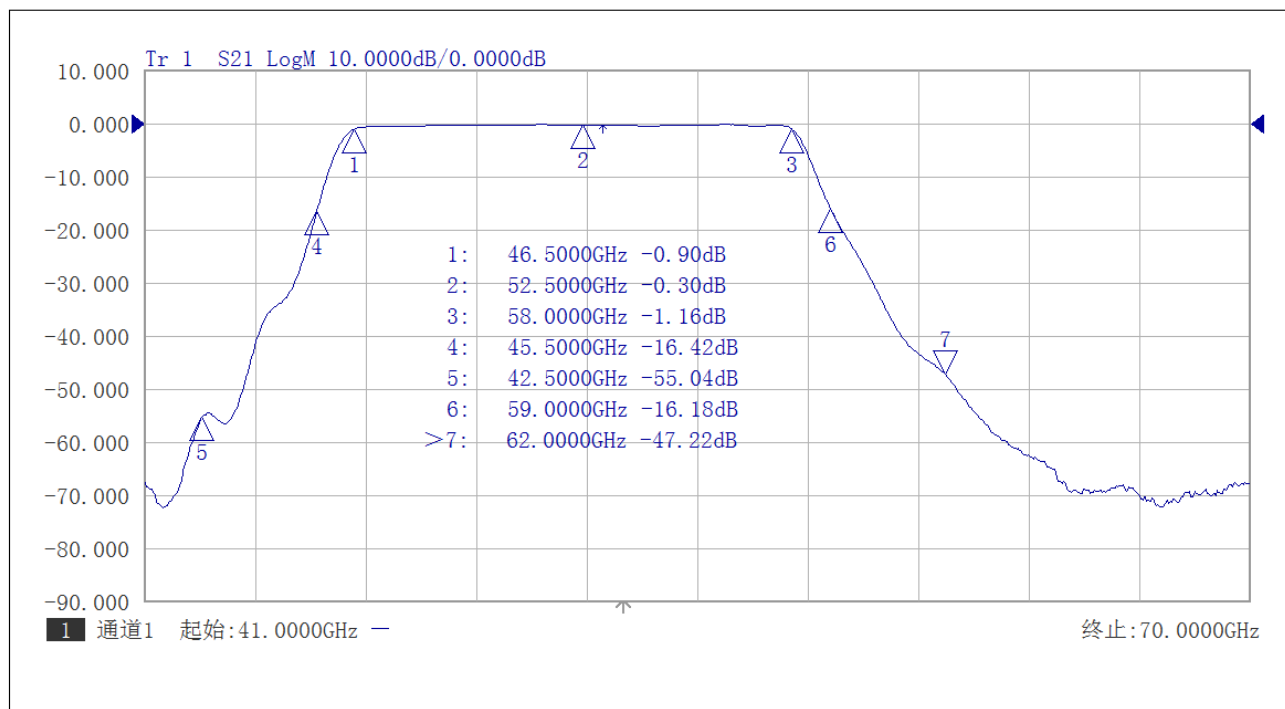
Item	Description
Input Port	WR-15, UG-385/U Flange with anti-cocking Flange
Output Port	WR-15, UG-385/U Flange with anti-cocking Flange
Case Material	Brass
Finish	Gold Plated
Weight	35g
Size:	See Dimension

Absolute Maximum Ratings Table

Parameter	Value
Operating Temperature	-40 to +85C
Storage Temperature	-65 to +150C

Test Result

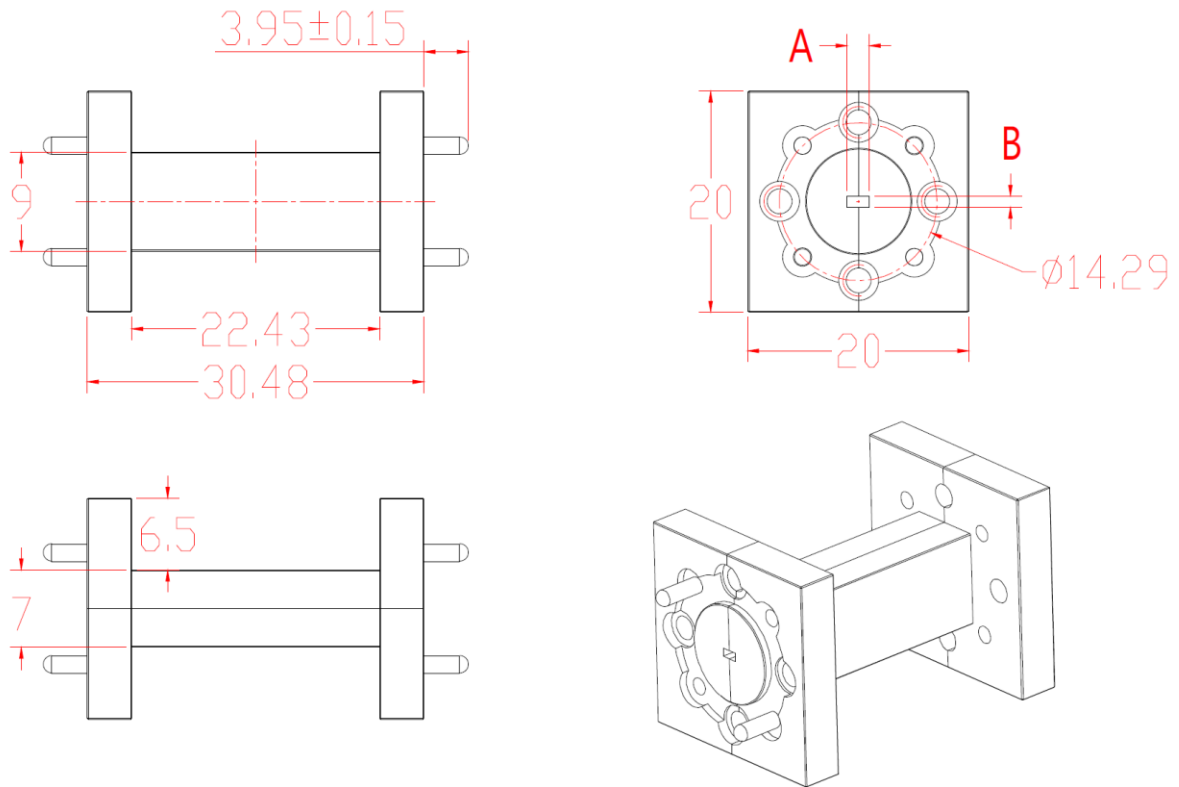
Performance may vary slight from unit to unit.



S21 vs Frequency



Dimension (mm)



Waveguide	A x B (inch)	A x B (mm)
WR-15	0.148x0.074	37.59x18.80
WR-12	0.122x0.061	30.99x15.49
WR-10	0.100x0.050	25.40x12.70
WR-08	0.080x0.040	20.32x10.16
WR-06	0.065x0.032	16.51x8.25

