

## E Band Diplexer, 71-86GHz

### Product Overview

AT-DIP-7176-8186 is a high isolation diplexer works for E band. This E-band diplexer is featured with 0.5 dB insertion loss, 17 dB return loss and 60 dB isolation at frequency band 71-76 GHz and 81-86 GHz.



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](http://www.atmicrowave.com)

### Advantages

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

### Application

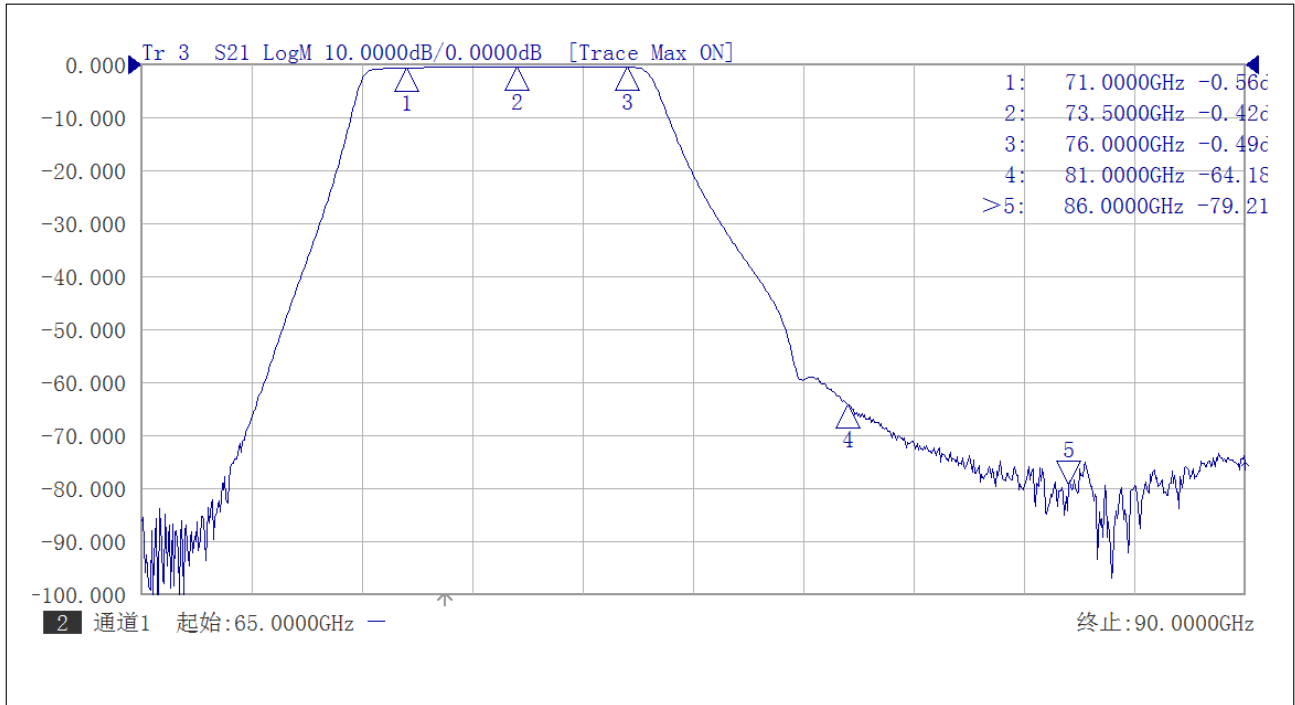
- ✓ E Band Communication
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

### Key Features:

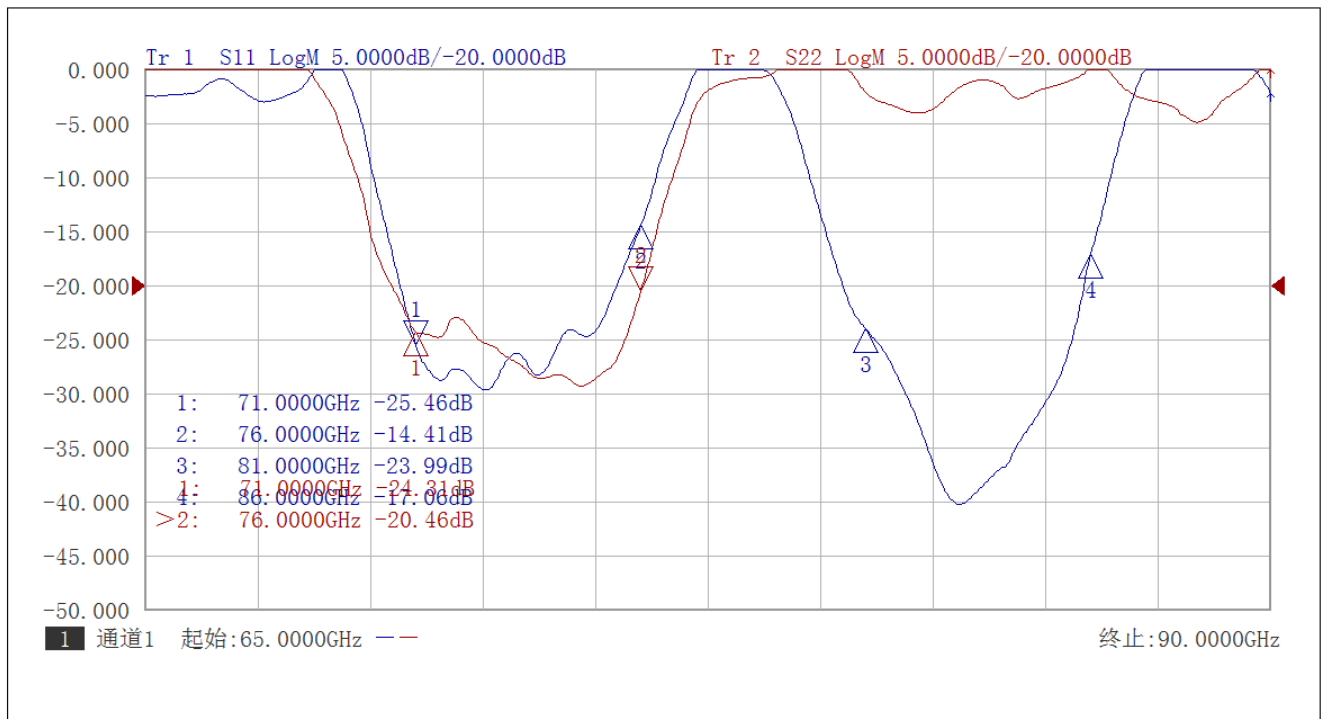
Parameter	Min	Typical	Max
Low Pass Band Frequency		71-76GHz	
High Pass Band Frequency		81-86GHz	
Pass band Insertion Loss		-0.7 dB	-1 dB
Passband Return Loss	-10	-15 dB	
Tx/Rx Isolation		-60dB	
Power Handling (CW)		1W	
RF Input/output Port		WR-12	
Plating		Silver	
Spec Temp		25C	
Operating Temp		-40 to 85C	



## 71-76GHz Low Band Performance



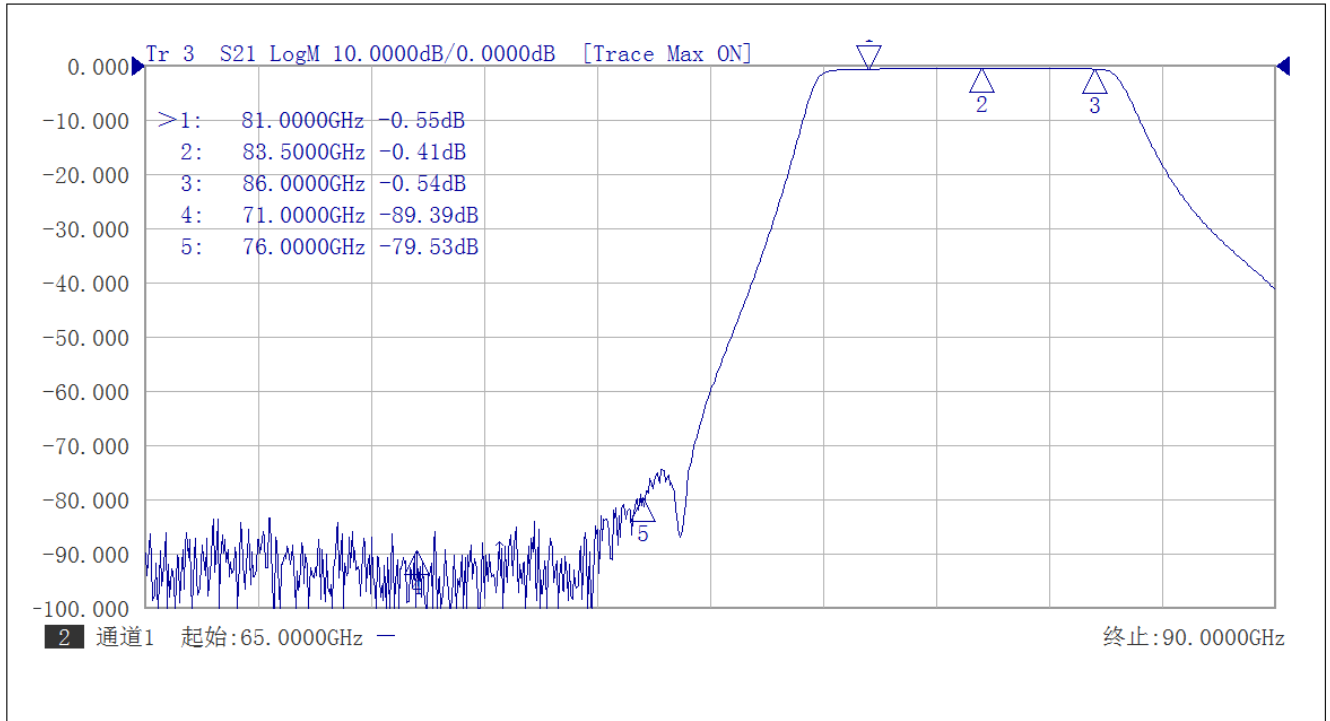
E1 Insertion Loss and E2 Rejection



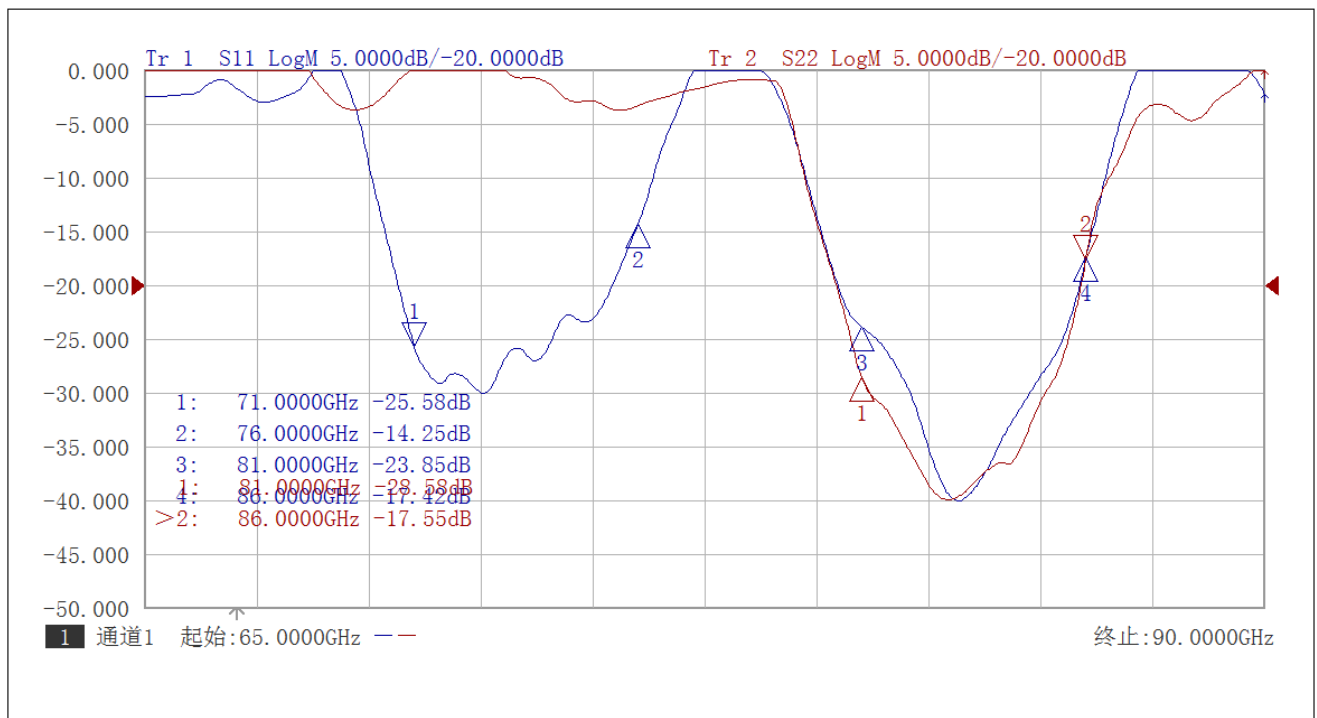
Return Loss



## 81-86GHz High Band Performance



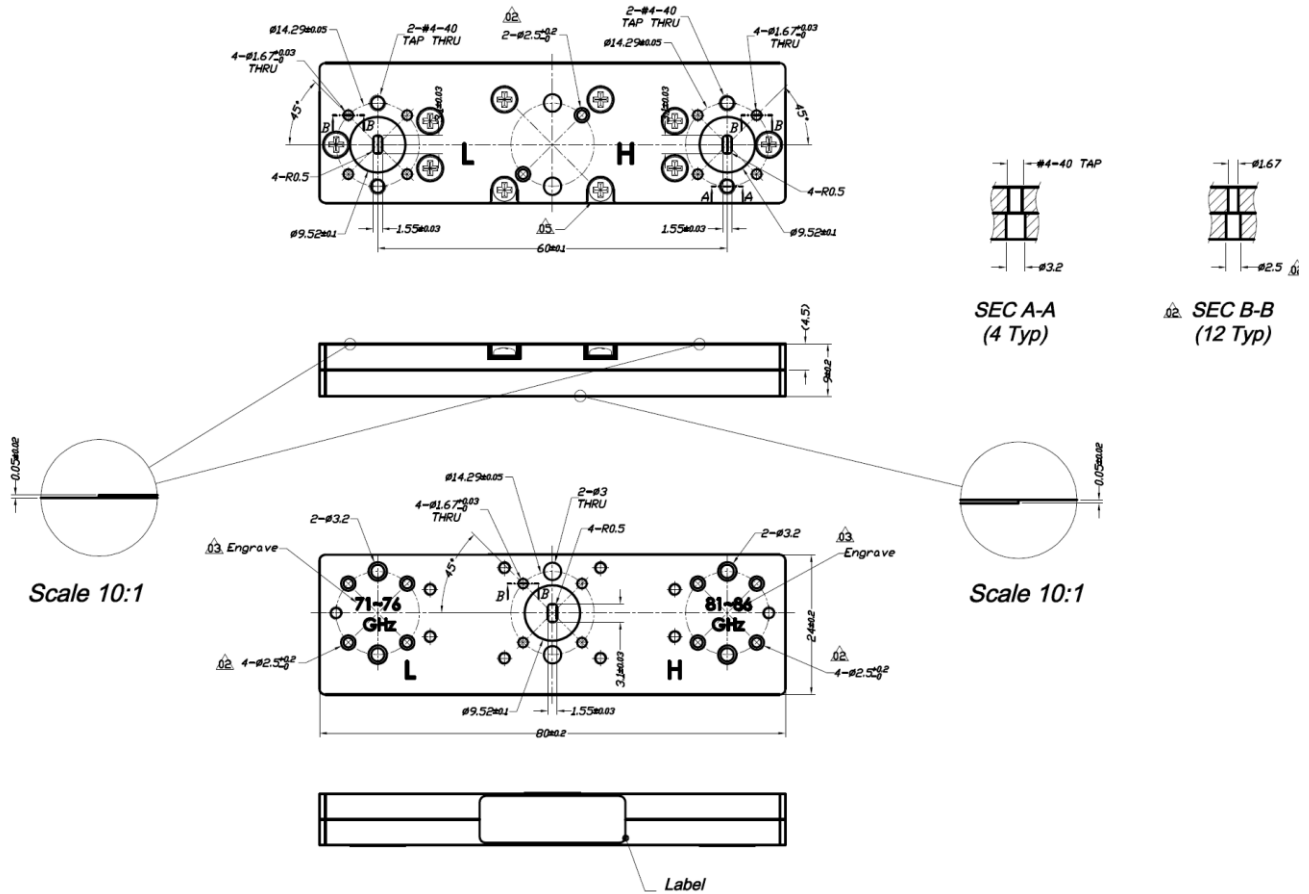
## E2 Insertion Loss and E1 Rejection



## Return Loss



**Dimension:** (unit: mm)



Note : 4#-40\*5/8 long waveguide screw is suggested for Antenna port.

