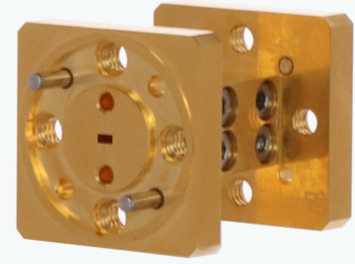




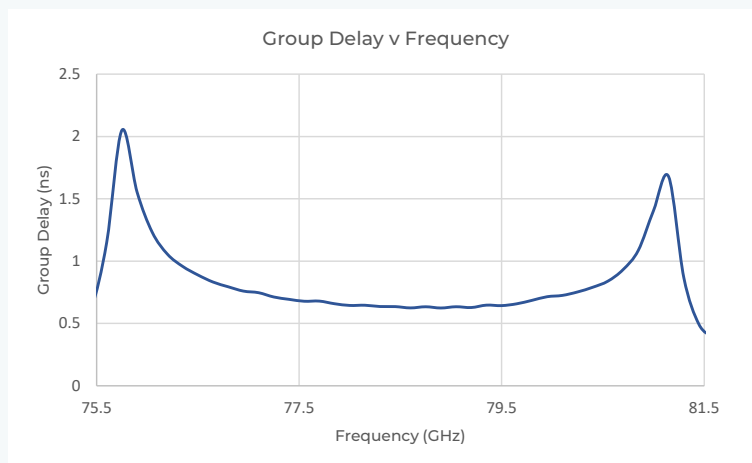
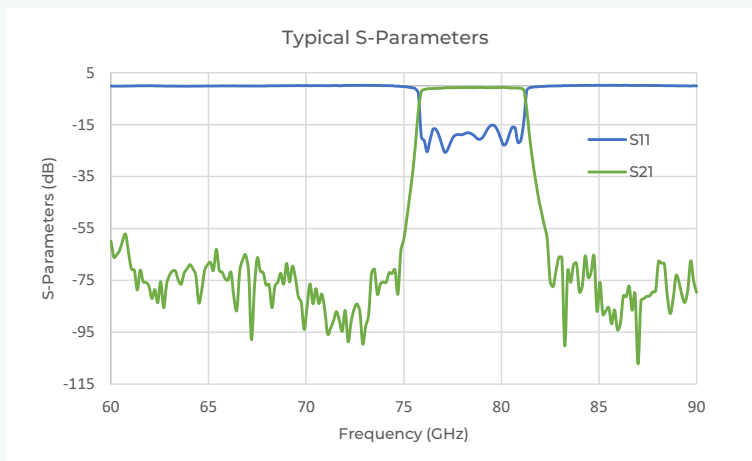
# WR-12 Band-Pass Filter 76-81 GHz: **BPF-12-0001**

Farran's BPF-12-0001 is a custom designed high performance waveguide band-pass filter offering low in-band insertion loss, high out-of-band rejection and excellent input and output match. Suitable for use in communications equipment, radar systems and millimeter-wave instrumentation.



### Key Facts:

- Low insertion loss.
- Excellent input and output match.
- High out-of-band rejection.
- Product Family frequency coverage 40 - 220 GHz.
- Compact and lightweight.



### APPLICATIONS

- Communications equipment
- 6G
- Mm-Wave instrumentation
- RF and LO signal sources
- Radar systems



### ACCESSORIES

- User Manual
- Test files



## Product Specification

Specification	Unit	Min	Typ	Max
Pass-Band Frequency Range	GHz	76	-	81
Pass-Band Insertion Loss	dB	-	1	-
40 dB Rejection	GHz	< 75.3	-	> 81.9
Return Loss	dB	-	18	-
Group Delay	ns		1	2
Test Port Flange (nom.)	-	WR-12 UG-387/UM		
Weight (typ.)	g	-	40	-
Dimensions (approx.)	mm	36 x 20 x 20		
Operating Temperatures (nom.)	deg C	0	-	30

\* Frequency points specified for passband and 40 dB rejection could shift by upto +/- 250 MHz

“We have made many Farran purchases, including amplifiers, mixers and multipliers. They are all high-performance devices and always meet our expectations. Farran supplied each component with comprehensive set of test results and a manual, which is not necessarily a given in this industry.”

**Microwave Circuit Designer & Engineer, Multinational Electronic Test Equipment Manufacturer.**

### Specification Definitions

**Nominal value (nom.)** – ensured by design, not tested. **Measured value (min, max)** – expected and warranted product performance obtained from the actual measurements of product sample. **Non-traceable measured value (n. trc. meas.)** – expected product performance obtained from the actual measurements of a product sample by means of using Farran’s own equipment and methods. Traceable only to Farran laboratory equipment. **Typical data (typ.)** – value that represents the product specification met over 90% of bandwidth or a mean value. **Specifications without limits** – represent the warranted product performance; with values of no or a negligible deviation from the given value and as such have a secondary impact on the product performance.



### SERVICES AVAILABLE

- Technical Support
- Installation and Setup
- Maintenance
- Application Support
- Hardware Support

For more information on any of our products or services please visit our website: [www.farran.com](http://www.farran.com)



### TECHNICAL SUPPORT

- Technical support provided directly by our knowledgeable and friendly engineers.
- Support for pre- and post-purchase: system configuration, installation and troubleshooting.



### PRODUCT INSIGHTS

- For more product insights register at [www.farran.com/customer](http://www.farran.com/customer)
- Additional information: test data, CAD drawings and 3D models available.



### WARRANTY

- Standard 1 year warranty.

