



Trusted RF Solutions™

μFILTER™ Miniature RF Filters



P/N: μ-FILTER-SF-xxxx

NuWaves' μFILTER™ is a low-cost miniature RF filter designed to allow the end user the capability to select a custom filter (Bandpass, Highpass, Low-Pass, or Band-Reject).

The μFILTER™ is offered with a selection of standard bandpass frequencies as well as custom frequencies. The Standard Filter (SF) series offers fixed-tuned band-pass filtering in the 300 MHz to 2.4 GHz range, with available 3 dB bandwidths of 1-40%. The Custom Filter (CF) series offers fixed-tuned band-pass, band-reject, low-pass or high-pass filtering in the 70 MHz to 1 GHz range, with typical bandwidths of 20%.

With standard SMA connectors, the μFILTER can quickly and easily be added to an RF system. NuWaves' μFILTER™ removes the time and cost burden of creating a design, laying out a PCB, buying parts, assembling, and testing.

Allow NuWaves to save you time and money by outsourcing your filtering needs.

Features

- Broadband Operation
- Miniature Form Factor
- Lightweight
- Low Noise and High Gain
- High Intercept Point
- Rugged Chassis
- Over-Voltage Protection
- Reverse-Voltage Protection
- Wide Input Voltage Range

Applications

- Wideband RF Front Ends
- High Performance Receivers
- High Linearity Requirements
- Broadband High Gain Block
- Low Noise Transmit Driver
- RF Pre-amplifier
- RF Repeater
- General Purpose Amplification
- Base Station LNA

μFILTER™ Miniature RF Filters



Specifications

Operational

SF Frequency Range	300 MHz to 2400 MHz
SF 3dB Bandwidths	1% to 40%
SF VSWR In/Out	2.0:1 (typ)
CF Frequency Range	70 to 1000 MHz
CF 3dB Bandwidths	20% (typ)
CF VSWR In/Out	1.75:1 (typ)
RF Connectors	SMA (Female)

Mechanical

Size	1.00" x 0.75" x 0.50" (L x W x H)
Weight	1 oz.

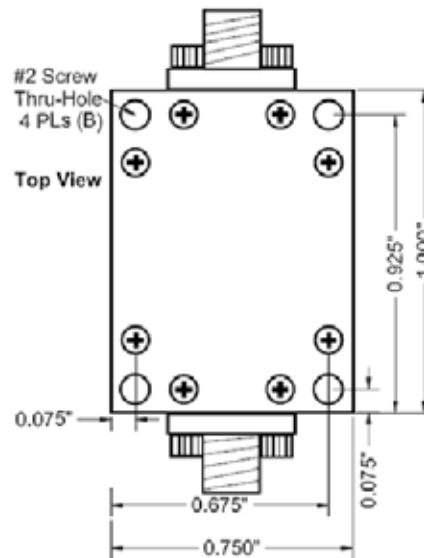
Environmental

Operating Temperature	-20 to +70 °C
Storage Temperature	-40 to +85 °C

Export

Classification	EAR99
----------------	-------

Mechanical Outline



Contact NuWaves



NuWaves Engineering
132 Edison Drive
Middletown, OH 45044

www.nuwaves.com
sales@nuwaves.com
513.360.0800

**NuWaves**
engineering

Trusted RF Solutions™