

# Waveguide Bandpass Filters



RLC Electronics' Waveguide Filters are available over the 1 to 40 GHz frequency band. Bandwidths may be as small as 0.1% to as large as 10% of the center frequency. These filters are available with 2 to 12 "high Q" resonant sections. RLC's Waveguide Filters are constructed using rectangular

copper waveguide. Invar devices for improved temperature stability are optionally available. These filters are available with cover flanges, choke flanges, or with coaxial transitions to SMA connectors.

## Specifications

WG<sup>-1-2-3-4</sup>

Model Number	Center* Frequency Range (MHz)	3 dB Bandwidth (% of fc)	Number of Sections
WG	1000 to 40,000	.1% to 10%	2 to 12

**VSWR:** 1:5:1

**Insertion Loss**

**.5 dB Bandwidth:**

**1.0 dB Bandwidth:**

**Stopband Attenuation:**

(Filter response approaches theoretical. Consult Factory for specifications on units meeting your specific requirements)

**Connectors:** Cover flange, Choke Flange

**Power:** 20 Watts

**Environment:** MIL-E-5400, Class 1A

### To designate the filter desired use:

- (1) Center Frequency in MHz
- (2) 3 dB Bandwidth in MHz

- (3) Number of Sections
- (4) F for cover flange or C for choke flange



**RLC ELECTRONICS, INC.**

83 Radio Circle, Mount Kisco, New York 10549 • Telephone: 914-241-1334 • Fax: 914-241-1753  
e-mail: sales@rlcelectronics.com • www.rlcelectronics.com