

## Ceramic Filters

Lorch Microwave's "DF" Ceramic Filter Series are versatile, drop-in devices designed and manufactured typically for commercial wireless applications. In addition to the standard cellular, PCS, and GSM bands, Lorch offers custom designed devices tailored for your specific application. DF Series products are available in Surface Mount, PC Mount, and Connectorized packages in 2 to 6 section configurations, and are available in low to high volume production quantities. Custom capabilities include custom mechanical configurations, military ruggedness, extreme environmental conditions, and extended frequency and bandwidth ranges. Contact Lorch Microwave for a custom design to your requirements.

- 400 MHz to 5000 MHz
- Bandwidths: 0.5 to 10%
- Surface Mount, PC Mount, Connectorized Options
- Custom Configurations Available
- 2 to 6 Poles in Single, Diplexed, or Triplexed Configurations
- Low Cost, High Performance
- Fast Delivery
- Low to High Volume Production Quantities



## Waveguide Filter Electrical Performance

Lorch Microwave offers a complete line of waveguide filters, that cover the frequency range of 2-40 GHz. Lorch offers waveguide filters as single components or in a diplexed

configuration. Typical applications for radio communications.

- Frequency Range 2- 40 GHz
- 2 thru 8 Sections
- W/G Flange or Connectorized
- Stand Alone Filters or Diplexed

Parameter	Standard	Special
Frequency Range	4 - 40 GHz	2 - 40 GHz
Bandwidth	0.5 - 5%	Contact Factory
Number of Sections	2 - 8	2 - 13
Typical VSWR	1.5:1	<1.3:1
Power Handling	1 watt avg	>100 watts

## Tunable Filters

Lorch Microwave's tunable filter products are designed to provide high performance in a single package. While typically used in test and measurement applications, these products can also be ruggedized for mobile and remote applications.

Lorch Microwave offers several standard Bandpass and Band-reject Tuners covering the frequency range of 24 MHz to 3000 MHz in octave bands. Cellular and PCS units cover less than full octaves, however offer greater dial resolution. All standard units offer direct frequency read-out, high power, and narrow bandwidth.

Stock 5 Section Units	Insertion Loss dB (Typical)	Length Inches (mm)	Width Inches (mm)	High Inches (mm)
5TF-24/48-5S	1.3	9.8 (248.9)	5.4 (137.2)	2.8 (71.1)
5TF-30/76-5S	1.3	9.8 (248.9)	5.4 (137.2)	2.8 (71.1)
5TF-32/64-5S	1.3	9.8 (248.9)	5.4 (137.2)	2.8 (71.1)
5TF-48/95-5S	1.3	9.8 (248.9)	5.4 (137.2)	2.8 (71.1)
5TF-63/125-5S	1.3	9.8 (248.9)	5.4 (137.2)	2.8 (71.1)
5TF-95/190-5S	1.3	9.8 (248.9)	5.4 (137.2)	2.8 (71.1)
5TF-125/250-5S	1.3	9.8 (248.9)	5.4 (137.2)	2.8 (71.1)
5TF-200/400-5S	1.3	9.8 (248.9)	5.4 (137.2)	2.8 (71.1)
5TF-225/400-5S	1.0	9.8 (248.9)	5.4 (137.2)	2.8 (71.1)
5TF-250/500-5S	1.0	9.8 (248.9)	5.4 (137.2)	2.8 (71.1)
5TF-375/750-5S	1.0	9.8 (248.9)	5.4 (137.2)	2.8 (71.1)
5TF-500/1000-5S	1.0	9.8 (248.9)	5.4 (137.2)	2.8 (71.1)
5TF-750/1500-5S	1.0	9.8 (248.9)	5.4 (137.2)	2.8 (71.1)
5TF-1000/2000-5S	1.0	7.4 (188.0)	2.9 (73.7)	2.8 (71.1)

