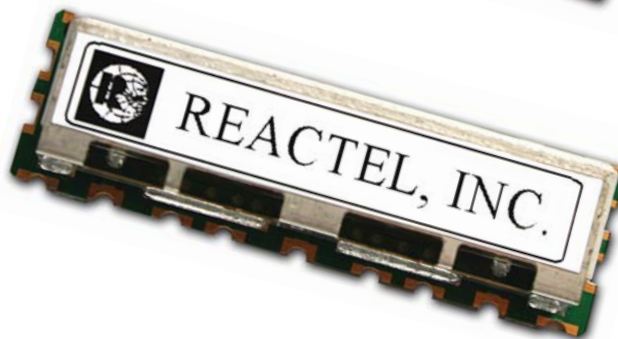


Ceramic Filters

Reactel Ceramic Filters are suitable for high-volume, low-cost applications as well as the stringent requirements found in military applications. These units are available in surface mount design or they can also be fitted with most any style of RF connector. All ceramic filters utilize a low ripple Chebyshev design and are available in bandpass and multiplexer configurations. Please contact us so we may design the unit which is a perfect fit for your unique requirement.

- 300 MHz to 6 GHz
- Bandwidths up to 25%
- Surface Mount or Connectorized
- Tape and Reel Available
- Bandpass and Multiplexer Designs Available



Part Numbering System

5 C X — 800 — 40 Q
 1 2 3 4 5 6

Part Number Definition:

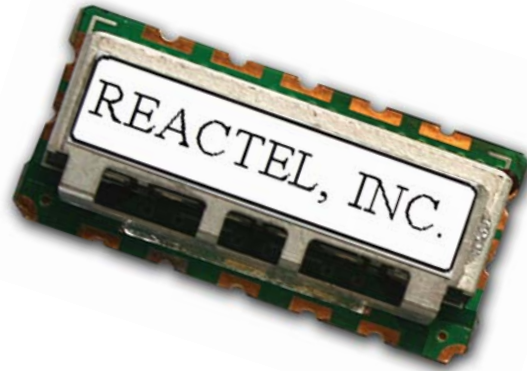
- 1 - Number of Sections
- 2 - Filter Type Designation
- 3 - Series Identification
- 4 - Center Frequency in MHz
- 5 - 3 dB Bandwidth in MHz
- 6 - Connector Definition (See Below)

Ceramic Filter Connectors

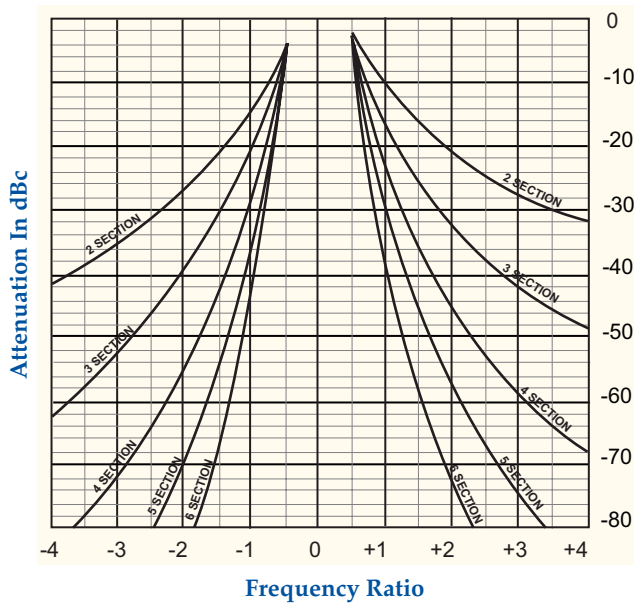
Connector Type	Connector Code
Surface Mount	Q
Gull Wing Pins	M
PC Pins	P



Ceramic Filters



Ceramic Bandpass Filter Attenuation Curves



The rejection for ceramic bandpass filters can be determined from the curves.

Calculate the frequency ratio as follows:

$$\text{Frequency Ratio} = \frac{\text{Rejection Frequency} - \text{Center Frequency}}{\text{3 dB Bandwidth}}$$

Example:

Center Frequency = 1000 MHz

3 dB Bandwidth = 100 MHz

Number of Sections = 5

Reject Frequencies = 800 & 1200 MHz

$$\text{Frequency Ratio} = \frac{800 - 1000}{100} = -2$$

Rejection from Curve = 70 dB



Reactel, Incorporated — Reacting First to Your Filter Requirements

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