

Dielectric Resonant Filter

Product Features

- *Low loss filter design*
- *Robust and compact*
- *High RF Power handling capacity*
- *Low pass-band frequency drift*



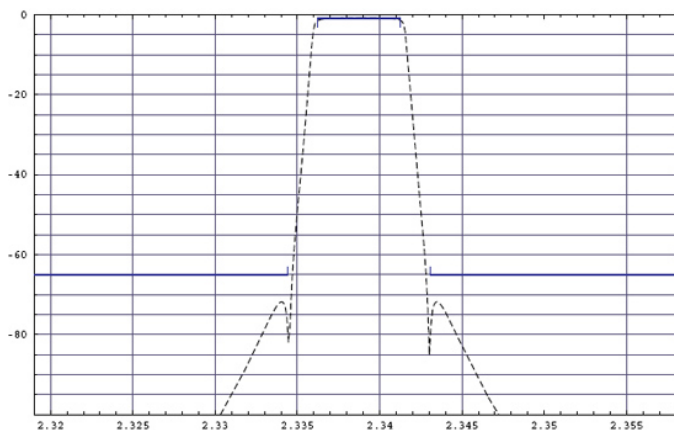
Overview

The high performance Dielectric Resonant band-pass filter is based on coupled cavities design and has exceptional performance characteristics. A key quality is its ability to provide significant out-of-band attenuation in very close proximity to the filter's pass-band, while providing a low loss path for the transmit signal.

The output filter is robust and compact. The High-Q values of the ceramic materials permit the use of small cavity structures keeping the weight and size of the filter to a minimum. The ceramic materials are also very stable in relation to temperature, resulting in minimal frequency shifting over a broad temperature range.

Typical Frequency Response

Rejection, dB



Product Specifications

Center Frequency of pass band	2326.25 MHz
Bandwidth	4.012 MHz
Insertion Loss at Band Edges (Fc ± 2.006 MHz)	1.2 dB max.
Attenuation:	
Fc ± 2.5 MHz	3 dB
Fc ± 3.0 MHz	23 dB
Fc ± 3.5 MHz	38 dB
Fc ± 4.5 MHz	48 dB
Fc ± 5.5 MHz	74 dB
Fc ± 6.5 MHz	80 dB
Fc ± 7.0 MHz	85 dB
Fc ± 10.0 MHz	100 dB
VSWR	1.20:1
Input Power (referenced at input port)	300 W (avg.) 1000 W (pk.)
Connectors	7/16 DIN-type (F)
Operating Temperature	55 °C to -25 °C

(specifications are subject to change without notice)