



## Overview

NIC introduces its Miniature size Cavity Filter products designed for use in airborne, ship mount or vehicle mount applications in harsh military environments. They can be custom designed for any center frequencies varying from 3 GHz to 18 GHz, and 3 dB bandwidth from 5 to 30%.

## Features

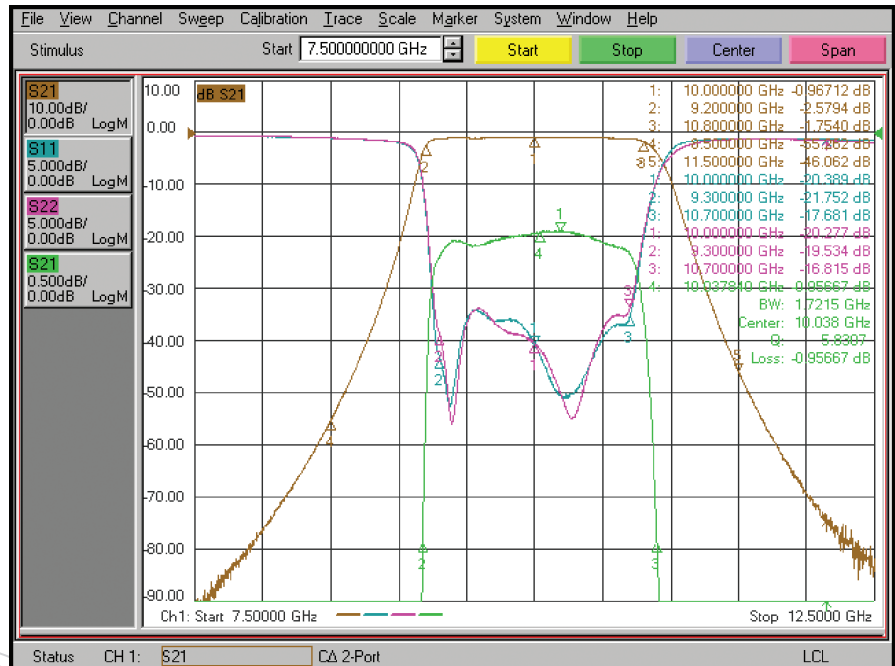
- Hermetically sealed package
- Gull wing surface mount RF pins or field replaceable SMA connectors
- Low insertion loss, high selectivity and wide bandwidth
- Up to 80% reduction in weight and volume compared to standard combine filters
- Good ultimate rejection
- Custom design available

## High Frequency Miniature Cavity Filters

### SPECIFICATIONS

Center Frequency (CF)	10 GHz
3 dB Bandwidth	1600 MHz min
Insertion Loss	1.5 dB max
Stopband Attenuation	8 pole Chebyshev response
Ultimate Rejection	70 dB min up to 26.5 GHz
Impedance (Input/Output)	50 Ohm
Connections (Input/Output)	Gull-wing surface mount
Hermetic Seal	Pass gross leak test
Package Size	1.38" x 0.56" x 0.29" (excluding mounting tabs)

## Passband Response





## High Frequency Miniature Cavity Filters

### Ultimate Rejection

