



## Overview

NIC introduces its tunable cavity filter designed for TACAN/DME ground receivers. Extremely low insertion loss is obtained using silver plated co-axial cavity and the tuning screw is self-locked using Posi-Torque Bushing, which ensures precise and stable frequency tuning. Single and multi-pole designs are available depending on the rejection requirement.

## Features

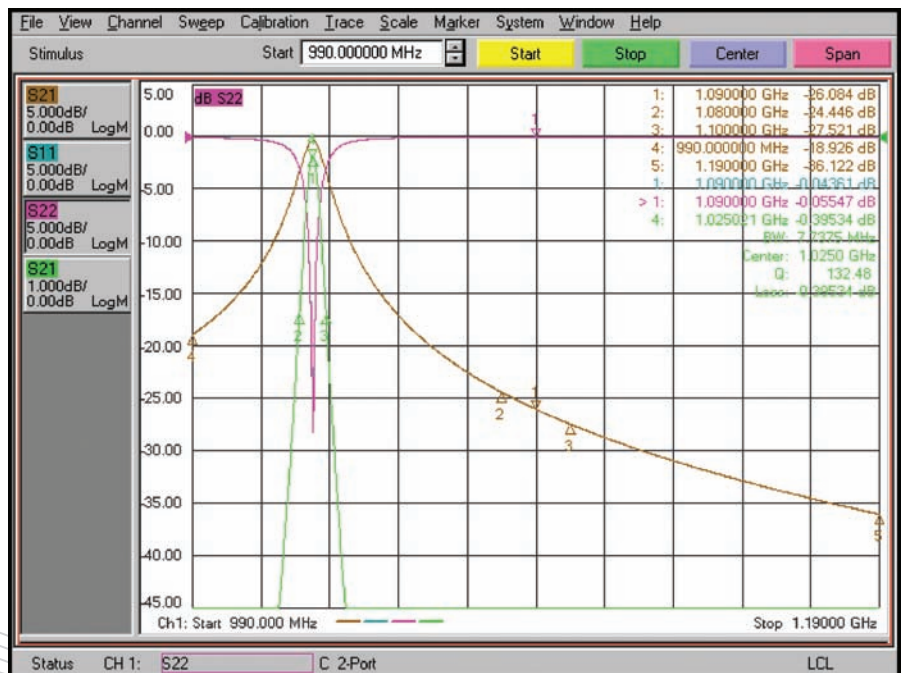
- Precise + Stable Frequency Tuning
- Low Insertion loss
- Narrow Bandwidth
- Custom designs available

## Tunable Cavity Filters

### SPECIFICATIONS

Tunable Frequency Range	1025 to 1150 MHz
Tuning Method	Tuning screw w self-locking Posi-Torque Bushing
Insertion Loss @ Tuned Frequency	0.5 dB max
Return Loss @ Tuned Frequency	20 dB min
3 dB Passband	8 MHz (nominal) @ 1090 MHz
10 dB Passband	20 MHz (nominal) @ 1090 MHz
Ultimate Rejection	25 dB min @ ± 100 MHz
Impedance (Input/Output)	50 Ohm
Connections (Input/Output)	SMA female
Operating Temperature Range	-10 to +60 °C
Package Size	2.5" 2.5" x 3.0" + SMA
Package Mounting	4 corner threaded inserts: 4-40

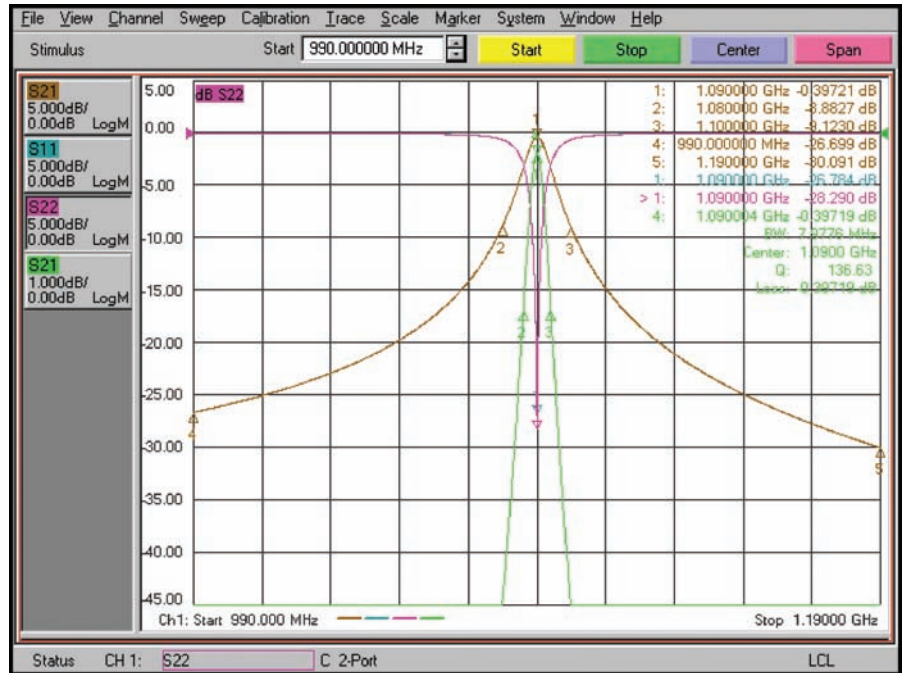
### Tuned at Center Frequency of 1025 MHz





## Tunable Cavity Filters

### Tuned at Center Frequency of 1090 MHz



### Tuned at Center Frequency of 1150 MHz

