

## Ku & K Band Cavity Filters

### Overview

NIC introduces Cavity Bandpass filters upto K band, designed for use in airborne, ship mount or vehicle mount applications in harsh military environments. These filters can be custom designed for center frequencies up to 26.5 GHz, and 3 dB bandwidths varying from 1 to 50%.

Features include:

- Hermetically sealed package
- Field replaceable SMA connectors
- Low insertion loss and high selectivity



### Example Specification:

Parameter	Specification
Center Frequency (CF)	18 GHz
3 dB Bandwidth	2500 MHz
Insertion Loss	1 dB max
Return Loss	14 dB Typical
Stopband Attenuation	6 pole Chebychev response
Impedance (Input/output)	50 Ohm
Connections (Input/output)	Field replaceable SMA connectors
Hermetic Seal	MIL-STD-202, M112 compliant
Approximate Package Size *	1.40" x 0.50" x 0.35"

Note: \*The size of the filter will vary based on bandwidth and number of poles.

## Typical Response:

