

7 GHz Hermetically Sealed Surface Mount Cavity Filter



Overview

NIC recently developed a hermetically sealed cavity filter built in a stainless steel package. It is available with center frequency from 3 GHz to 18 GHz, and 3 dB bandwidth from 1 to 30%.

Features

- Ruggedized package for Hi-Rel environments
- Gull wing surface mount RF pins/GPO or removable SMA
- Low insertion loss and high selectivity
- Good ultimate rejection
- Custom designs available



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Example Specification:

Parameter	Specification
Passband	7000 MHz (Single Frequency)
Insertion Loss	Less than 2.0dB at the center frequency
VSWR (Input / Output)	1.5:1 max
Rejection	50 dB min @ 10 – 5120 MHz 40 dB min @ 5760 – 6400 MHz 45 dB min @ 8960 – 12800 MHz
Impedance (Input / Output)	50 Ohm
Input Interface	Gull-wing surface mount
Output Interface	GPPO Flange, Part Number B001-A23-02
Material	300 series stainless steel
Package Dimensions	1.10" (L) x 0.52" (W) x 0.32" (H)
Hermetic Sealing	Pass gross and fine leak tests
Operating Temperature	0° C to +55° C
Storage Temperature	-40° C to +65° C

Typical Response:

