



Overview:

NIC introduces an absorptive lowpass filter operating in the L-band region. This filter internally terminates out-of-band signals to prevent reflective signals from causing excessive in-band ripples and affect system stability. Custom designs are available from HF to Ku bands.

Features:

- Out of band VSWR of 1.5:1 up to 5000 MHz
- Offers system stability by rejecting reflected signals
- Compact hermetically sealed package
- Ruggedized package suitable for ground, air-borne and ship-mount applications

DC-1600 MHz Absorptive Lowpass Filter

Electrical Specifications:

Parameter	Specification
Passband	DC – 1600 MHz
Passband Insertion Loss	0.4dB max
VSWR	1.4:1 from DC – 1550 MHz
Out of Band VSWR	1.5:1 from 3000 MHz – 5000 MHz
Rejection	60dB min @ 3100 MHz – 5000 MHz
Package Configuration	Hermetically sealed SMT package
Package Size	1.00 x 0.50 x 0.40 inches + Tabs
Operating Temperature	-40°C to +85°C
Environmental Specifications	Ruggedized to meet MIL-STD-202 and MIL-STD-883 requirements

Response Plot:

