

Low Cost SMT High Pass Filter 1700 - 3000 MHz

FLO5-0002-G

V1.00

Features

- Small Size and Low Profile
- Industry Standard SOIC-8 SMT Plastic Package
- Superior Repeatability
- Typical Insertion Loss 0.5 dB
- Typical Rejection 20 dB
- 2 Watt Power Handling

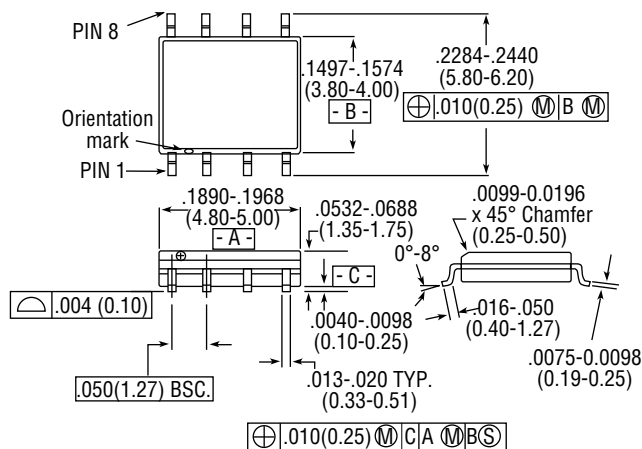
Description

M/A-COM's FLO5-0002-G is an IC based monolithic high pass filter in a low cost SOIC-8 plastic package. This filter is ideally suited for applications where small size, low cost and low loss are required.

Typical applications include base station switching networks and portable phones where size and PCB real estate are at a premium. Available in tape and reel.

The FLO5-0002-G is fabricated using a passive-integrated circuit process. The process features full chip passivation for increased performance and reliability.

SO-8



8- Lead SOP outline dimensions

Narrow body .150

(All dimensions per JEDEC No. MS-012-AA, Issue C)

Dimensions in () are in mm.

Unless Otherwise Noted: .xxx = ± 0.010 (.xx = ± 0.25)

.xx = ± 0.02 (.x = ± 0.5)

Ordering Information

Part Number	Package
FLO5-0002-G	SOIC 8-Lead Plastic Package
FLO5-0002-G-TR	Forward Tape and Reel*
FLO5-0002-G-RTR	Reverse Tape and Reel*

* If specific reel size is required, consult factory for part number assignment.

Typical Electrical Specifications¹, T_A = +25°C

Parameter	Units	Min.	Typ.	Max.
Insertion Loss: 1700 - 3000 MHz	dB		0.5	1.0
VSWR: 1700 - 3000 MHz			1.5:1	1.8:1
Rejection: DC - 1000 MHz	dB	15	20	

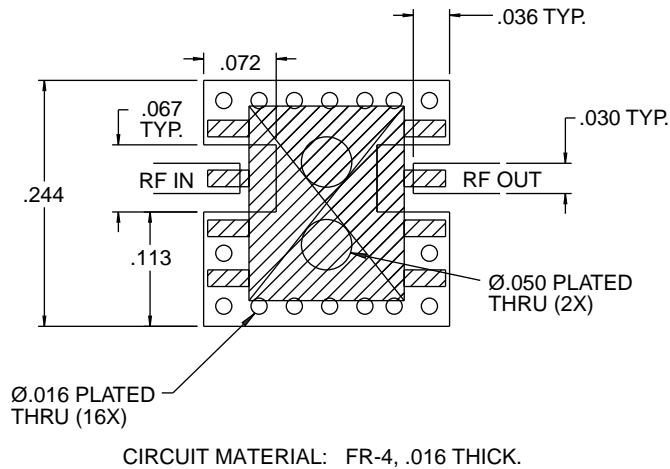
1. All specifications apply with 50 - ohm source and load impedance.

Absolute Maximum Ratings¹

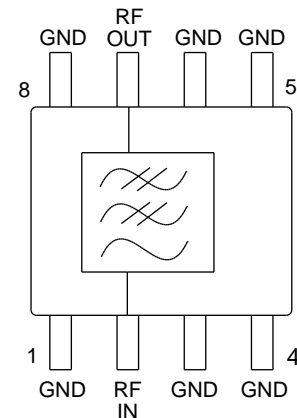
Parameter	Absolute Maximum
Input Power	2 W CW
Operating Temperature	- 40°C to + 85°C
Storage Temperature	- 65°C to + 150°C

1. Exceeding these limits may cause permanent damage.

Recommended PCB Configuration

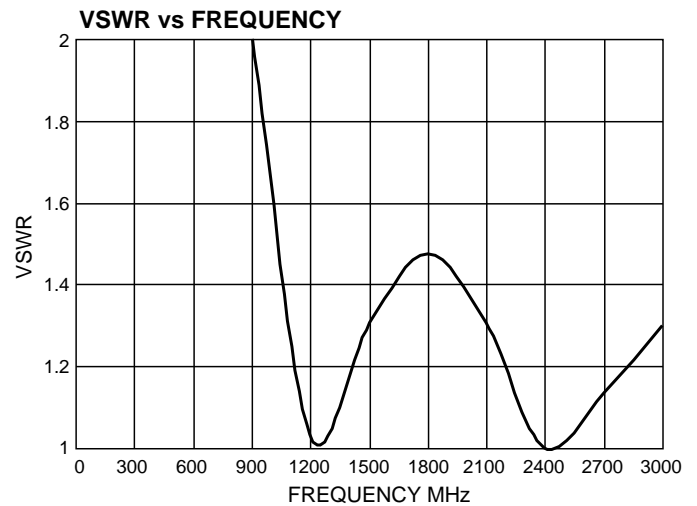
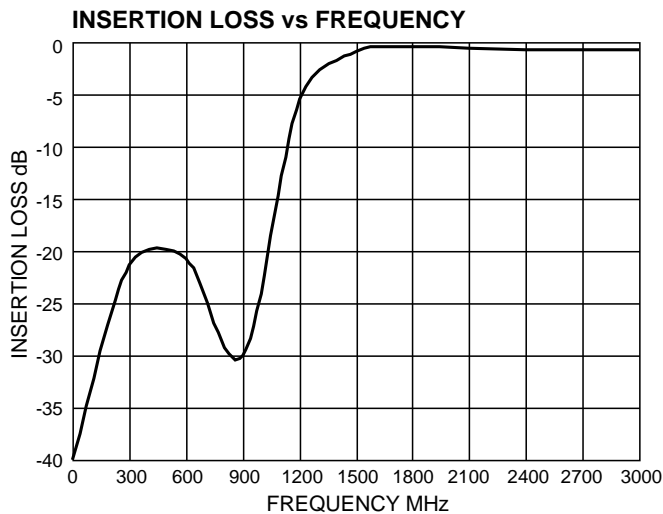


Functional Diagram



All unused pins must be RF and DC grounded.
Pins 1 and 4 are thermal ground contacts.

Typical Performance @ +25°C



The Preliminary Specifications Data Sheet Contains Typical Electrical Specifications Which May Change Prior to Final Introduction.