#### AMP M/A-COM

# Low Cost SMT Low Pass Filter DC - 1000 MHz

#### Features

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

Description

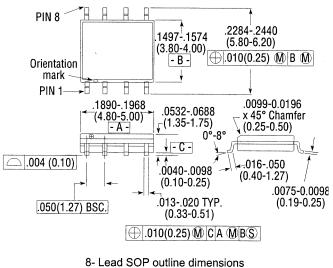
Available in tape and reel.

performance and reliability.

required.



#### 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 =  $\pm 0.010$  (.xx =  $\pm 0.25$ ) .xx =  $\pm 0.02$  (.x =  $\pm 0.5$ )

### **Ordering Information**

Part Number	Package
FL07-0001-G	SOIC 8-Lead Plastic Package
FL07-0001-G-TR	Forward Tape and Reel*
FL07-0001-G-RTR	Reverse Tape and Reel*

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

### Typical Electrical Specifications<sup>1</sup>, $T_A = +25^{\circ}C$

M/A-COM's FL07-0001-G is an IC-based monolithic low 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

Typical applications include base station switching networks and

portable phones where size and PCB real estate are at a premium.

The FL07-0001-G is fabricated using a passive-integrated circuit process. The process features full-chip passivation for increased

Parameter	Units	Min	Тур	Max
Insertion Loss: DC-1000MHz	dB	_	0.5	1.0
VSWR: DC-1000 MHz			1.3:1	1.6:1
Rejection: 1800-3500 MHz	dB	15	20	
2000-3000 MHz	dB	20	27	

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



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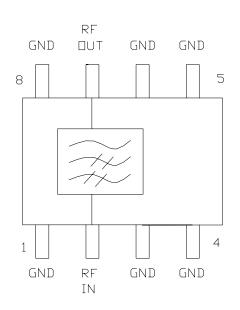


## Absolute Maximum Ratings<sup>1</sup>

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.

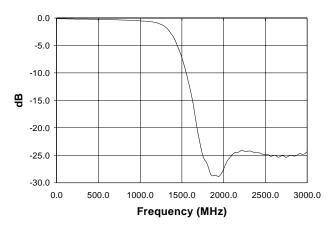
# **Functional Diagram**



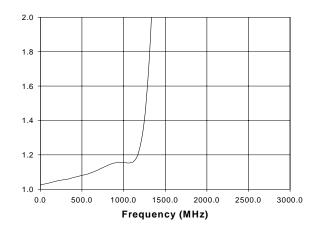
All unused pins must be RF and DC grounded. Pins 1 and 4 are thermal ground contacts.

## Typical Performance @ +25°C

**Insertion Loss vs Frequency** 



#### VSWR vs Frequency





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