

For prototype or pre-production sample please contact RFM Sales.

- **Designed for Broadband Receiver IF Applications**
- Low Insertion Loss
- 5.0 X 5.0 mm Surface-Mount Case
- **Differential Input and Output**
- Complies with Directive 2002/95/EC (RoHS)

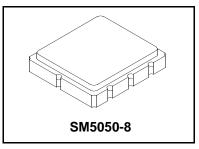


#### **Absolute Maximum Ratings**

Rating	Value	Units
Maximum Incident Power in Passband	+13	dBm
Max. DC voltage between any 2 terminals	30	VDC
Storage Temperature Range	-40 to +85	°C
Suitable for lead-free soldering - Max Soldering Profile	260°C for 30 s	

# SF2072C

## 360.00 MHz **SAW Filter**



#### **Electrical Characteristics**

Characteristic	Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency	ČF			360.00		MHz
Insertion Loss				9	10.5	dB
Bandwidth 1 dB			30	36		MHz
Bandwidth 3 dB			36	40		MHz
Amplitude Ripple across 30 MHz				0.4		dB
Amplitude Ripple across any 10 MHz				0.75		dB
VSWR across fc ±15 MHz				1.7	2.2	
Group Delay Variation				40		nsec
100 to 285 MHz				50		
285 to 325 MHz			25	38		dB
325 to 435 MHz			25	38		uв
435 to ++				45		1
Center Frequency Temperature Coefficent				-34		kHz/°C
Temperature Operating			-40		85	°C
Case Style	SM5050-8 5 x 5 mm Nominal Footprint			•		
Lid Symbolization (YY=year, WW=week, S=shift) RFM 649 YYWWS		VS				

Notes:

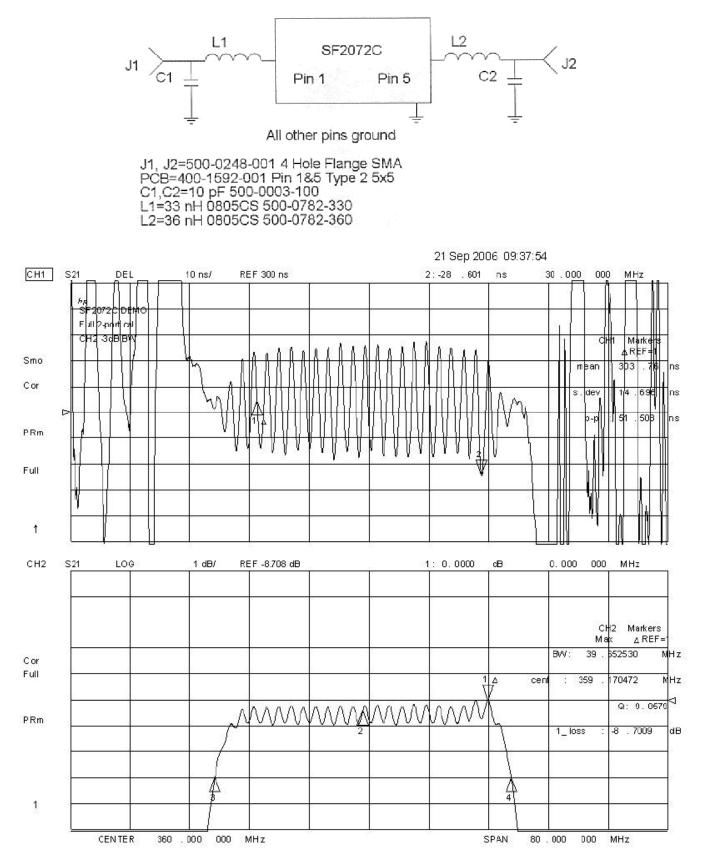
Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 1. 50  $\Omega$  and measured with 50  $\Omega$  network analyzer.

2. Rejection is measured as attenuation below the minimum IL point in the passband. Rejection in final user application is dependent on PCB layout and external impedance matching design. See Application Note No. 42 for details.

- 3. The design, manufacturing process, and specifications of this filter are subject to change.
- 4. Tape and Reel Standard ANSI / EIA 481.
- 5.
- US and international patents may apply. RFM, stylized RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc. 6.
- 7. ©Copyright 1999, RF Monolithics Inc.
- 8. Electrostatic Sensitive Device. Observe precautions for handling.
- The center of the bandwidths will move with ambient temperature. 9.

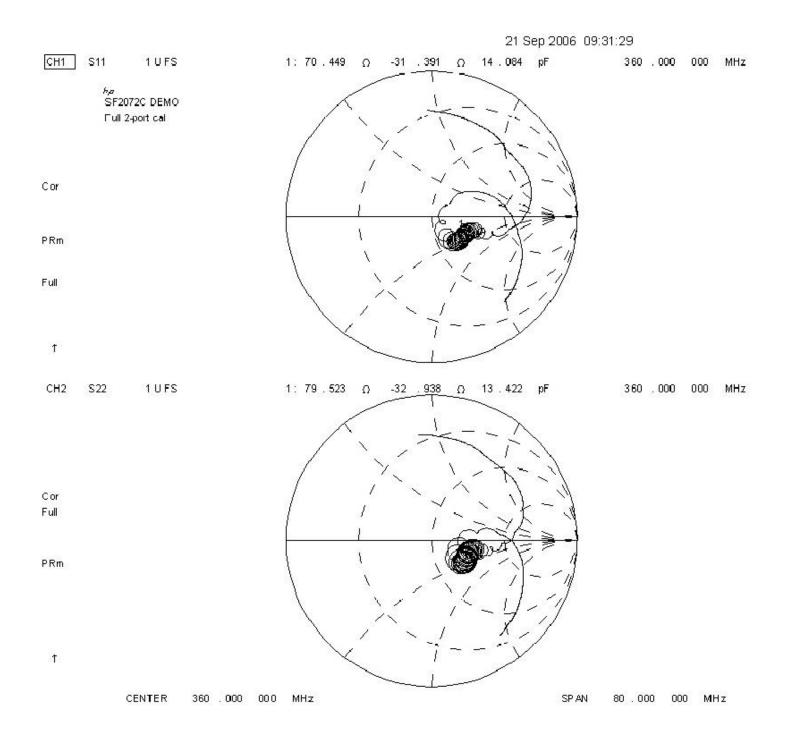
## SAW Filter

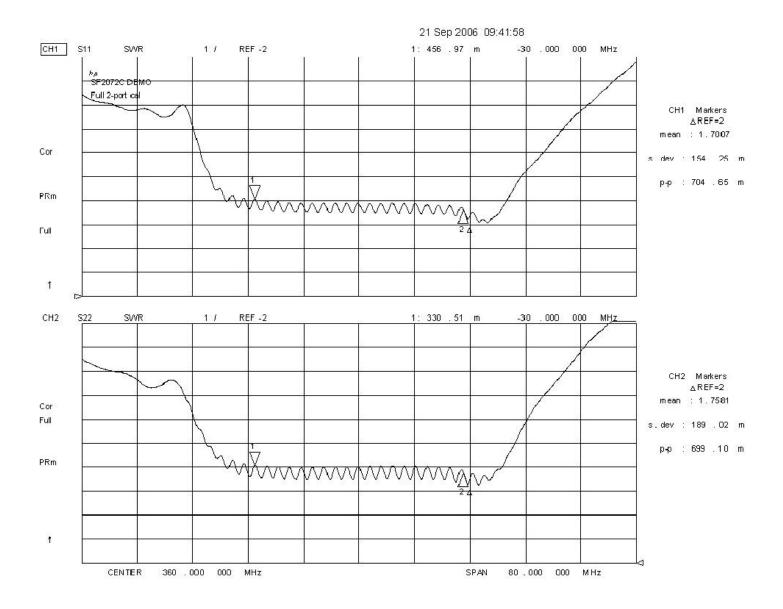
SF2072C Demo Board

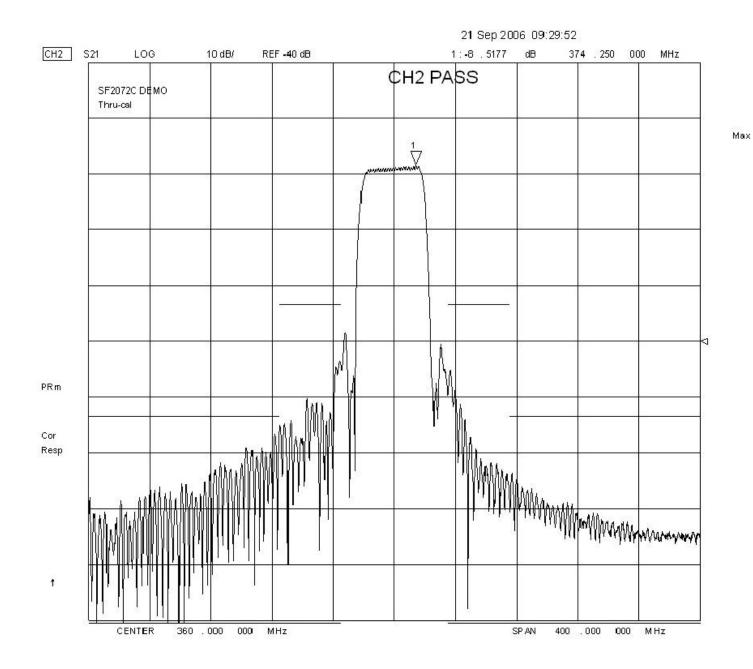


360.00 MHz

## SAW Filter

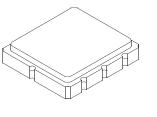






# SM5050-8 Case

### 8-Terminal Ceramic Surface-Mount Case 5.0 X 5.0 mm Nominal Footprint



Case Dimensions

Dimension	mm			Inches		
Dimension	Min	Nom	Max	Min	Nom	Max
Α	4.8	5.0	5.2		0.1968	
В	4.8	5.0	5.2		0.1968	
С			1.7			0.0669
D		2.08			0.0818	
E		1.17			0.046	
F		0.64			0.0252	
G	2.39	2.54	2.69		0.100	

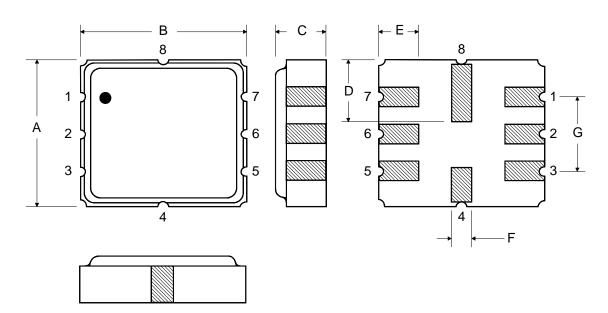
#### Electrical Connections

Materials					
Solder Pad Termination	Au plating 30 - 60 ulnches (76.2-152 uM) over 80- 200 ulnches (203-508 uM) Ni.				
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phosphorus) 100-200 ulnches Thick				
Body	Al <sub>2</sub> O <sub>3</sub> Ceramic				
Pb Free					

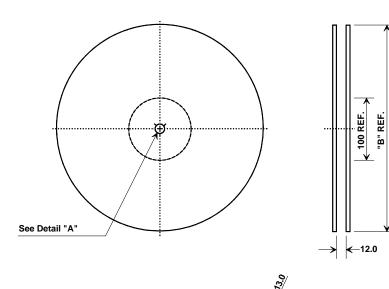
Connection		Terminals		
Port 1	Differential Input	2,3		
Port 2	Differential Output	6,7		
	Ground	All others		
Single Ended Operation		Return is ground		
Differential Operation		Return is hot		
Dot indicates Pin 1				

TOP VIEW

**BOTTOM VIEW** 



#### **Tape and Reel Specifications**



"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000

#### COMPONENT ORIENTATION and DIMENSIONS

2.0

		Carrier Tape Dimensions	
	-	Ао	5.3 mm
		Во	5.3 mm
COVER TAPE SIZE		Ко	2.0 mm
		Pitch	8.0 mm
		W	12.0 mm
COVER TAPE (	CARRIER TAPE S		P (PITCH)