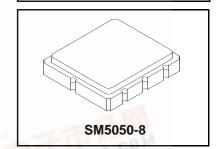


For prototype or pre-production sample please contact RFM Sales.

SF2072C

360.00 MHz **SAW Filter**



- 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	

Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency	CF			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	. T. W.	dB
VSWR across fc ±15 MHz				1.7	2.2	
Group Delay Variation				40	-EC.CO.	nsec
100 to 285 MHz				50	1.0	
285 to 325 MHz		S. 45	25	38		dB
325 to 435 MHz		39 1 1	25	38		uБ
435 to ++		016		45		
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				

Notes:

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

 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.

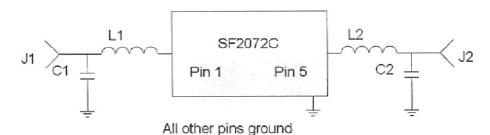
 The design, manufacturing process, and specifications of this filter are subject to change.
- Tape and Reel Standard ANSI / EIA 481.
- US and international patents may apply.
- RFM, stylized RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc.
- ©Copyright 1999, RF Monolithics Inc.
- Electrostatic Sensitive Device. Observe precautions for handling.

 The center of the bandwidths will move with ambient temperature.



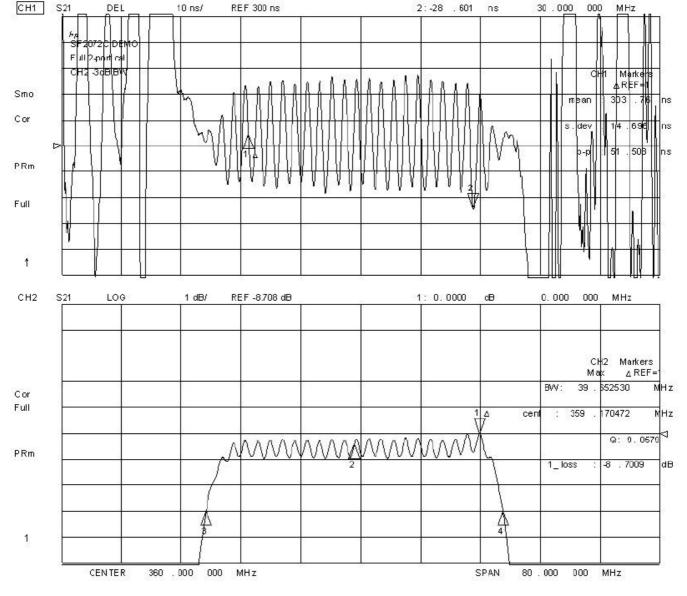
Fax: (972) 387-8148

SF2072C Demo Board

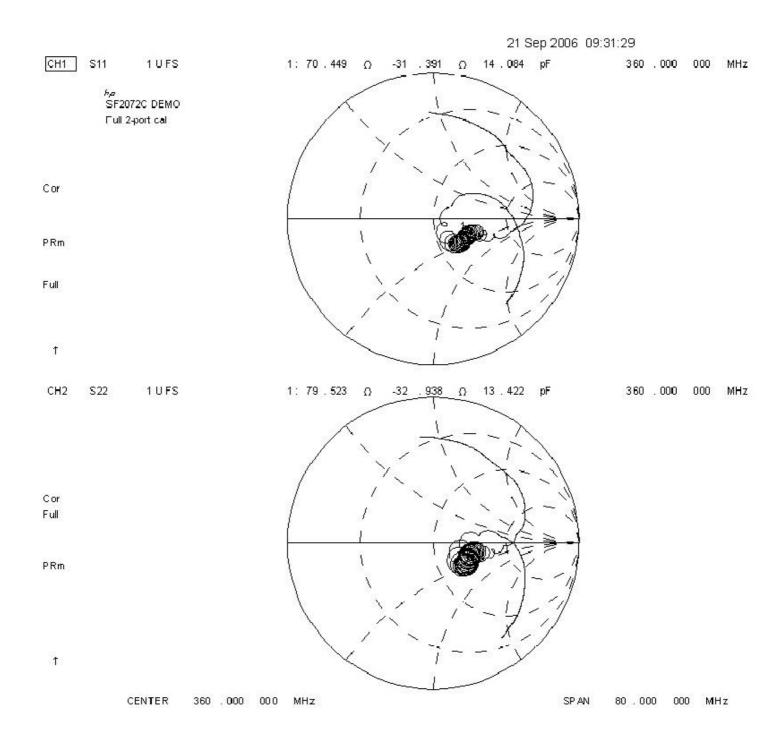


J1, J2=500-0248-001 4 Hole Flange SMA PCB=400-1592-001 Pin 1&5 Type 2 5x5 C1,C2=10 pF 500-0003-100 L1=33 nH 0805CS 500-0782-330 L2=36 nH 0805CS 500-0782-360

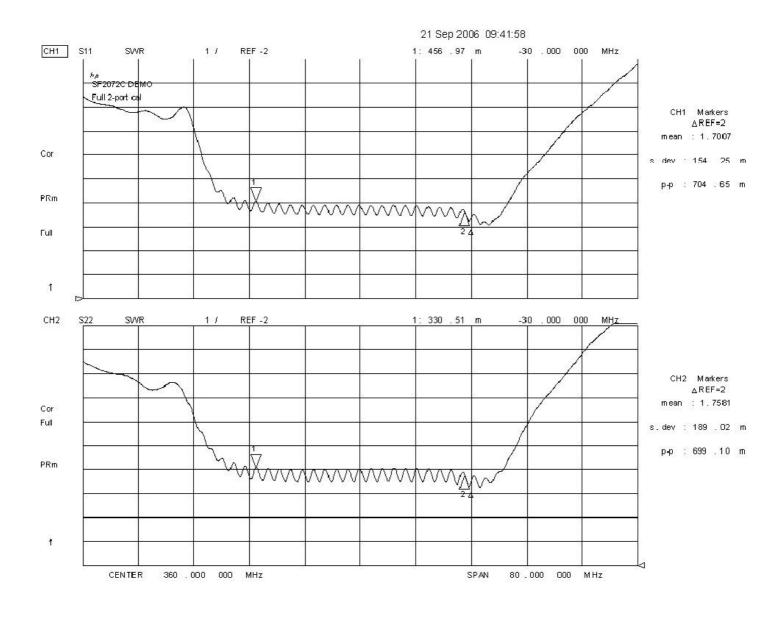
21 Sep 2006 09:37:54

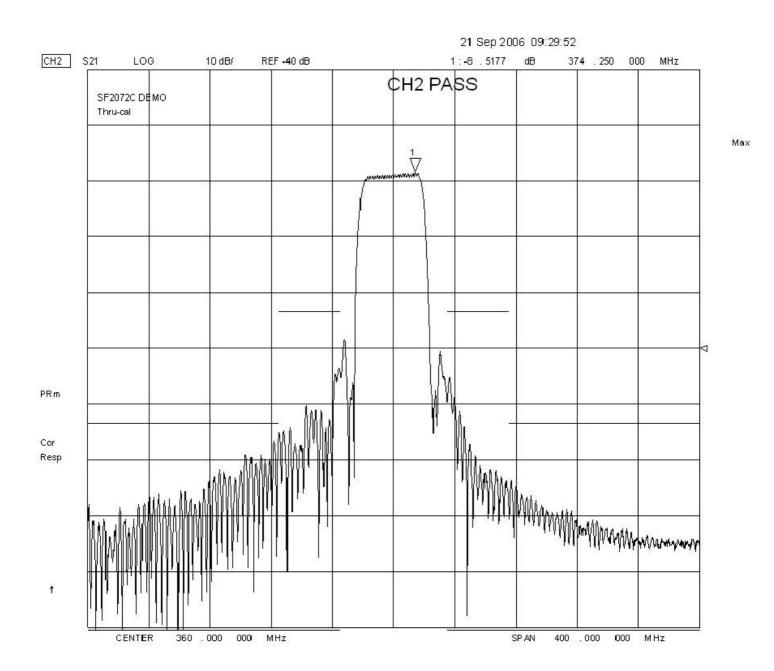


SAW Filter



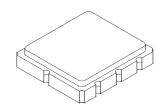
SAW Filter





SM5050-8 Case

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



Case Dimensions

Dimension	mm			Inches		
Dilliension	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	

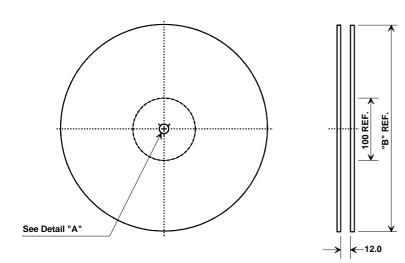
Solder Pad Termination Au plating 30 - 60 ulnches (76.2-152 uM) over 80-200 ulnches (203-508 uM) Ni. Lid Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phosphorus) 100-200 ulnches Thick Body Al₂O₃ Ceramic Pb Free

Electrical Connections

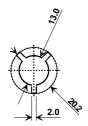
	Connection	Terminals
Port 1	Differential Input	2,3
Port 2	Differential Output	6,7
	Ground	All others
Single Ende	Single Ended Operation Return is gr	
Differential Operation		Return is hot
Dot indicates	s Pin 1	<u>.</u>

TOP VIEW BOTTOM VIEW A 2 3 4 4 F

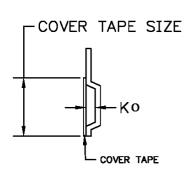
Tape and Reel Specifications



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



COMPONENT ORIENTATION and DIMENSIONS



Carrier Tape Dimensions				
Ao	5.3 mm			
Во	5.3 mm			
Ко	2.0 mm			
Pitch	8.0 mm			
w	12.0 mm			

