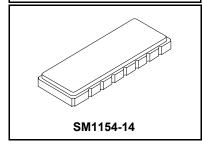




RFM products are now Murata products.

SF2062A

229.25 MHz **SAW Filter**



· Quartz Temperature Stability

- · Small Size
- Hermetic 11.5x4.0 mm Surface-mount Case
- Complies with Directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Maximum DC Voltage Between any 2 Terminals	30	VDC
Storage Temperature Range	-40 to +85	°C
Suitable for Lead-free Soldering - Maximum Soldering Profile	260 °C	for 30 s

Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Nominal Center Frequency	f _C	1			MHz	
Insertion Loss at fc	IL				8.35	dB
3 dB Bandwidth	BW ₃		±150			kHz
Amplitude Ripple, fc ±100 kHz				0.9		dB _{P-P}
I/O Impedance				50		ohm
Group Delay Deviation, fc ±100 kHz, -20 to +60 °C	GDD			150		ns _{P-P}
Attenuation Referenced to IL:						
fc ±600 kHz			20			
fc ±900 kHz			34			dB
fc ±1.2 MHz			32			
10 MHz to fc-1.2 MHz, fc+1.2 MHz to 2000 MHz			20			
Operating Temperature Range	T _A	1	-20		+80	°C

Matching to Unbalanced 50 Ω	External L-C				
Case Style	6	SM1154-14 11.5 x 4.0 mm Nominal Footprint			
Lid Symbolization (YY=year, WW=week S=shift, ##=sequence code)		RFM SF2062A YYWWS##			

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

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.
- matching to 50 \(\Omega\) and measured with 50 \(\Omega\) network analyzer.

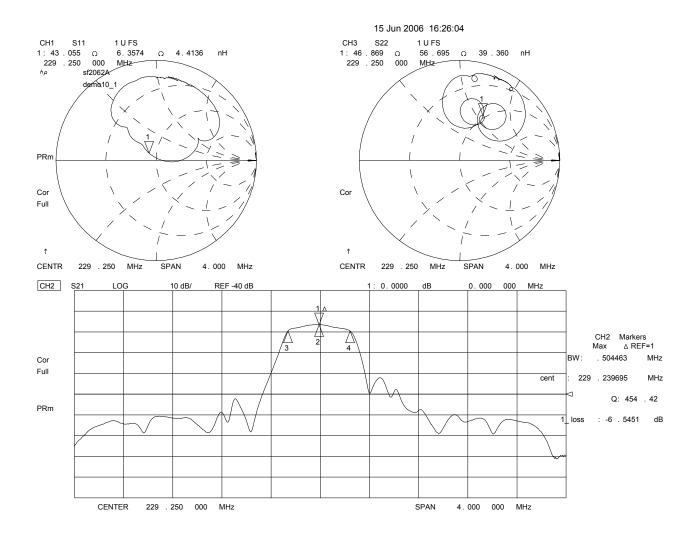
 Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.

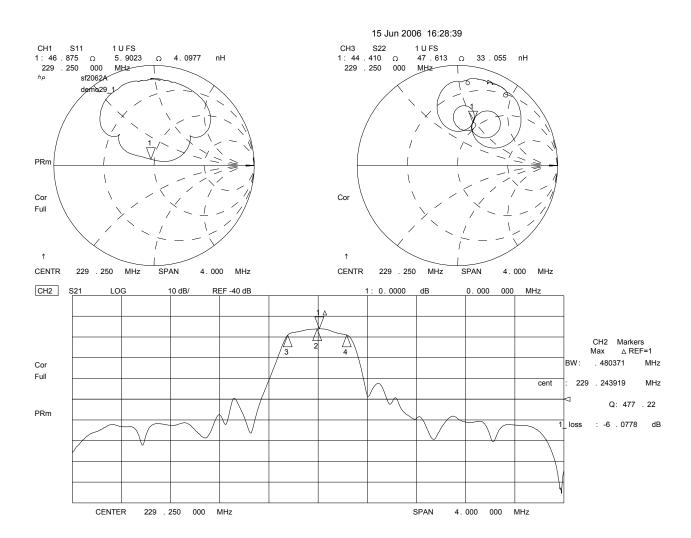
 Rejection is measured as attenuation below the minimum IL point in the passband. Rejection in final user application is dependent on PCB layout and external impedance matching design. See Application Note No. 42 for details.

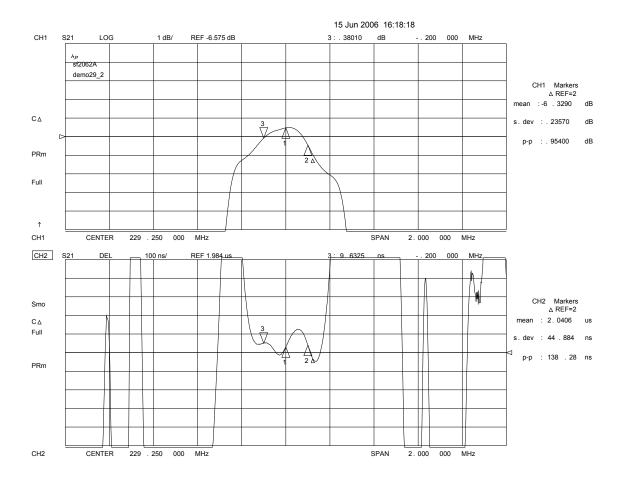
 The design, manufacturing process, and specifications of this filter are subject to change.

 US and international patents may apply.

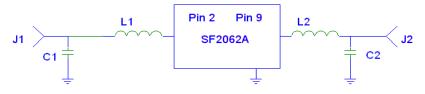
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SF2062A Demo Board Rev 2



All other pins ground

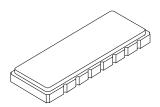
PCB=400-1650-001 PCB J1, J2=500-0248-002 2 hole flange SMA

C1=15 pF 500-0003-150 C2=10 pF 500-0003-100

L1=68 nH 0805CS L2=82 nH 0805CS Shield=Brass shim stock

SM1154-14 Case

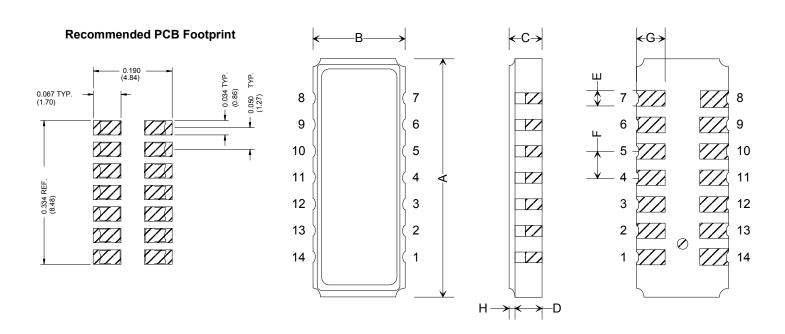
14-Terminal Ceramic Surface-Mount Case 11.5 x 4.0 mm Nominal Footprint



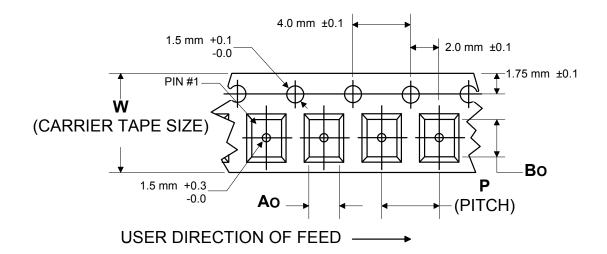
Case Dimensions											
Dimension		mm		Inches							
	Min	Nom	Max	Min	Nom	Max					
Α	11.4	11.5	11.6	.442	0.450	0.458					
В	3.8	4.0	4.2	.150	0.157	.166					
С	1.4	1.6	1.8	.057	0.063	.069					
D	1.3	1.5	1.7	.053	0.059	.065					
E		0.76			0.030						
F		1.27			0.050						
G		1.27			0.050						
Н		0.1			0.004						

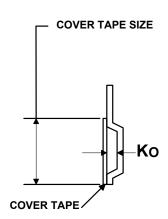
Electrical Connections							
Connection Terminal							
Input	2						
Output	9						
Ground	All Others						

Materials							
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel						
Lid Plating	2.0 to 3.0 µm Nickel						
Body	Al ₂ O ₃ Ceramic						
	Pb Free						



COMPONENT ORIENTATION and DIMENSIONS

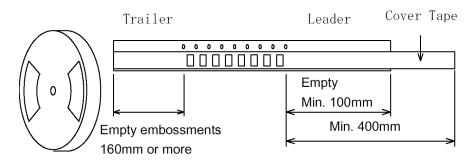




Carrier Tape Dimensions								
Ao	±0.1							
Во	12.04 mm	±0.1						
Ko	2.13 mm	±0.1						
Pitch	8.00 mm	±0.1						
W	24.00 mm	±0.3						

Leader and Trailer specifications (Based upon EIA-481)

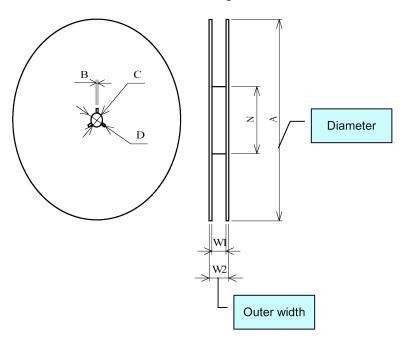
Dimensions of the leader and trailer



7 Inch Reel Quantity 500														
Symbol	A N			С		D		В		W ₁		W ₂		
Dimension	178	+0 -4	60	±1	13	+0.5 -0.2	20.2	+1.5 -0	2	±0.5	24.4	+2 -0	30.4	MAX

13 Inch Reel Quantity 2000														
Symbol	A N		С		D		В		W ₁		W ₂			
Dimension	330	+0 -4	100	±2	13	+0.5 -0.2	20.2	+1.5 -0	2	±0.5	24.4	+2 -0	30.4	MAX

Dimensional drawing of the reel



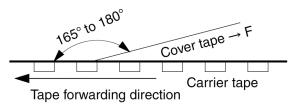
Additional items

(1) Cover tape peeling strength

The cover tape shall be adhered evenly to the carrier tape along both sides in the pulling direction.

The cover tape peeling strength shall be as follows for an angle between the cover tape and the pulling direction of 165° to 180° (see the figure) and a peeling speed of 300mm/min. ±10mm/min.

[EIA-481] 0.1N to 1.3N for a tape width of 12 to 56mm



Fixing method

- 1. Insert the tip of the carrier tape into the groove.
- 2. Fix the tip of the cover tape with adhesive tape.

Tape material

- (1) Carrier tape [anti-charging treatment: carbon used] Surface resistivity: 1 x 10⁸ or less Material: Polystyrene or Polycarbonate
- (2) Cover tape material: Polyester (anti-charging treated) Surface resistivity: 1 x 10^{12} or less t = 50 to $100\mu m$

Warranty periods

Cover tape peeling strength and mounting performance of stored components.

2-1. Cover tape peeling strength: One year after delivery (Peeling strength: 0.1N to 1.3N)

Number of missing components

There shall not be two or more consecutive missing components. Also, the maximum number of missing components shall be the larger of one piece or 0.1%.

Storage environment

Keep the product on which taping has been performed to a temperature below 40°C and a humidity within 80% RH. Do not subject in the direct sun.

Reel labels shall follow the format shown below. The long side of the label must measure between 2.75 and 4.0 inches (68 to 100 mm). The short side of the label must measure between 1.5 and 2 inches (38 to 80 mm). Bar codes must conform to AIAG standard B10.

Information that is on the label:

Device Type: RFM part number

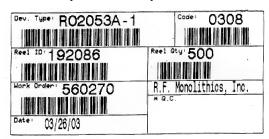
Code: RFM designated part ID or part date code

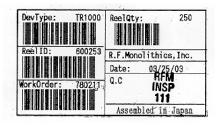
Reel ID: Manufacturing reel identification Reel Qty: Quantity of parts on the reel

Work Order: Manufacturing work order number Date: Date product was loaded on tape and reel. Company Identification: R. F. Monolithics, Inc.

*Q. C.: Area for QA stamps, other information is required

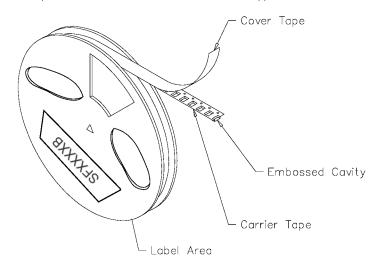
Country of assembly





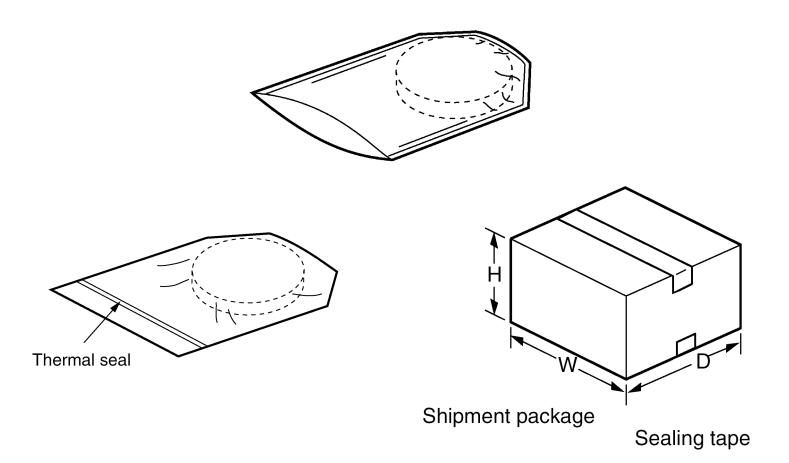
Examples of acceptable reel labels

Location of label on reel is shown below. Reel labels must be placed entirely on plastic, without covering open sections of the reel. Design of reel must satisfy this requirement. Pin #1 must be located on the side opposite the reel label.



Package for Shipment

7 Inch	Quanity Per Reel	Number Reels Per Carton	External Caton Dimensions	Reel Weight	Shipping Carton Weight	Total Weight
Reel	500	4	254 x 254 x 127 mm 10 x 10 x 5 inches	896 g	448 g	1344 g
	500 10		254 x 254 x 203 mm 10 x 10 x 8 inches	2240 g	448 g	2688 g
	Quanity Per Reel	Number Reels Per Carton	External Caton Dimensions	Reel Weight	Shipping Carton Weight	Total Weight
13 Inch Reel	2000	2	356 x 356 x 102 mm 14 x 14 x 4 inches	1288 g	448 g	1736 g
	2000	4	356 x 356 x 178 mm 14 x 14 x 7 inches	2576 g	2576 g 448 g	
	2000	8	356 x 356 x 356 mm 14 x 14 x 14 inches	5152 g	448 g	5600 g



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