



SF2055A

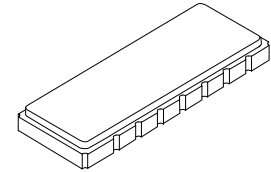
**240.050 MHz
SAW Filter**

- 11.5 X 4.0 mm Surface-Mount Case
- Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	10	dBm
DC Voltage	0	V
Operating Temperature Range	0 to +60	°C
Storage Temperature Range	-40 to +85	°C



SM1154-14

Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	F _O			240.05		MHz
Insertion Loss (at fo)					5.0	dB
Passing Bandwidth (3dB)			±150			kHz
In-band Ripple (within fo±100kHz)					0.5	dB
Total Amplitude Variation (within fo ±100kHz)				0.5	1	dB
Relative Group Delay (within fo±100kHz)					0.5	µsec
Guaranteed attenuation value	fc-600 kHz		36	40		dB
	fc+600 kHz		36	46		
	fc-1.2 MHz		40	48		
	fc+1.2 MHz		38	46		
	fc-21.6 MHz		60	72		
	fc+21.6 MHz		60	68		
	10 to 215 MHz		20	67		
	265 MHz to 2 GHz		20	24		
I/O Impedance				50		Ω
Absolute Delay (within fo±100kHz)				1.85 ±0.6		µsec

Case Style	SM1154-14 11.5 x 4.0 mm Nominal Footprint		
Lid Symbolization (YY=year, WW=week, S=shift, ##=sequence code) dot=pin 1 indicator	SF2055A, <u>YYWWS##</u>		
Standard Reel Quantity	Reel Size 7 Inch	500 Pieces/Reel	
	Reel Size 13 Inch	2000 Pieces/Reel	

Electrical Connections

Connection	Input	Output	Ground
Terminals	2	9	All others

Notes:

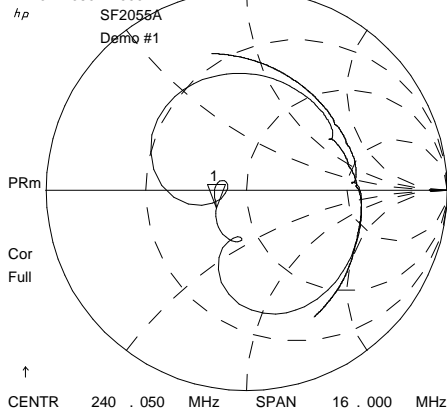
1. Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer.
2. Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.
3. The design, manufacturing process, and specifications of this filter are subject to change.
4. US and international patents may apply.
5. RFM, stylized RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc.
6. ©Copyright 1999, RF Monolithics Inc.
7. Electrostatic Sensitive Device. Observe precautions for handling.



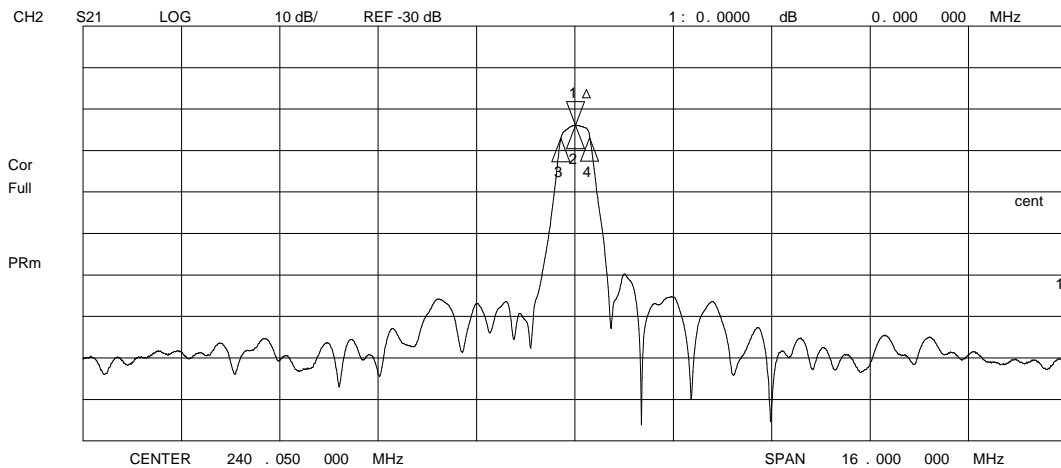
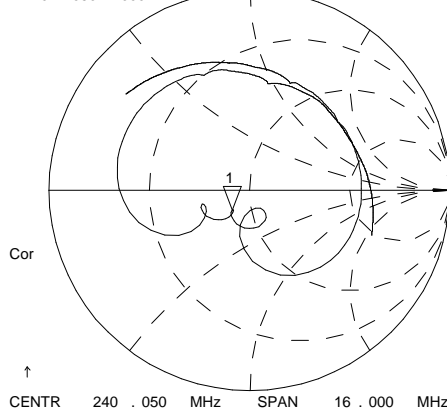


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CH1 S11 1 UFS
 1: 36 . 385 Ω -6 . 7734 Ω 97 . 883 pF
 240 . 050 000 MHz

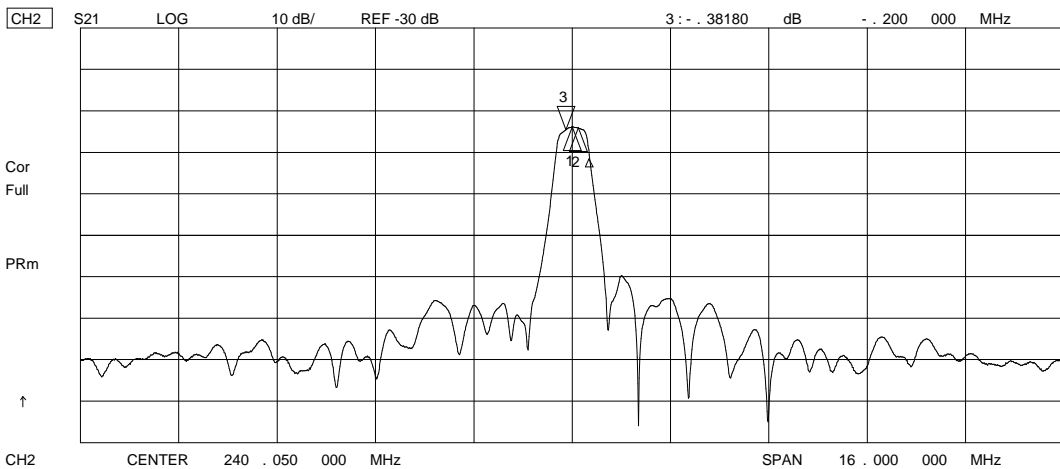
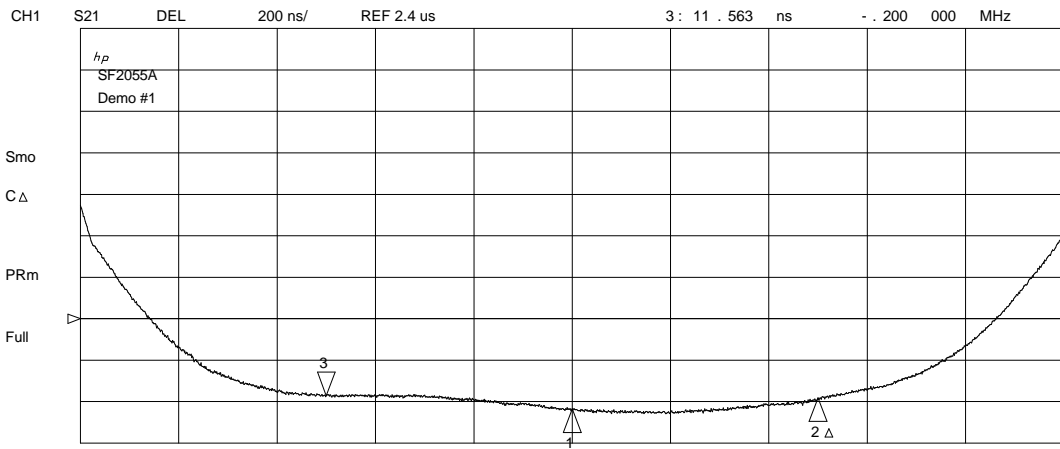


CH3 S22 1 UFS
 1: 41 . 229 Ω -8 . 1543 Ω 81 . 308 pF
 240 . 050 000 MHz



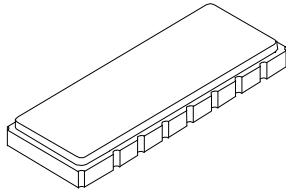
CH2 Markers
 Δ REF=1
 BW: . 470834 MHz
 cent : 240 . 058572 MHz
 Q: 509 . 86
 1_loss : -3 . 9442 dB

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SM1154-14 Case

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

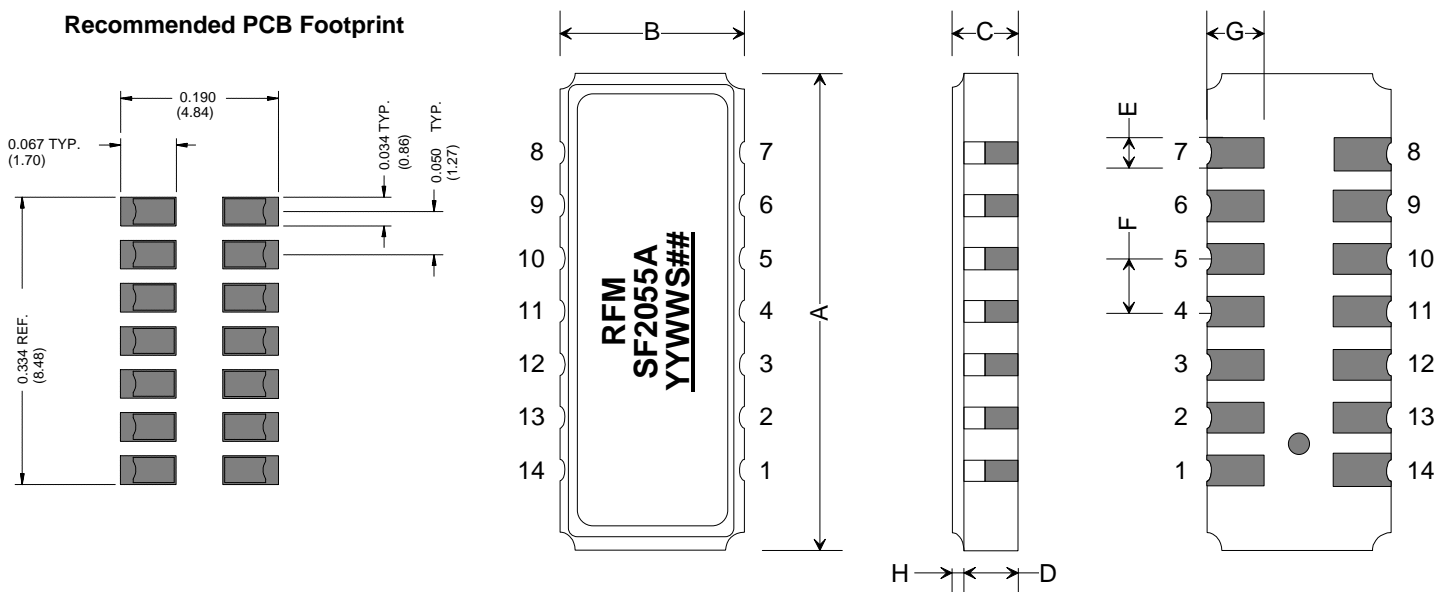


Case Dimensions						
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	11.4	11.5	11.6	.442	0.450	0.458
B	3.8	4.0	4.2	.150	0.157	.166
C	1.4	1.6	1.8	.057	0.063	.069
D				0.041	0.047	0.053
E		0.76			0.030	
F		1.27			0.050	
G		1.27			0.050	
H		0.1			0.004	

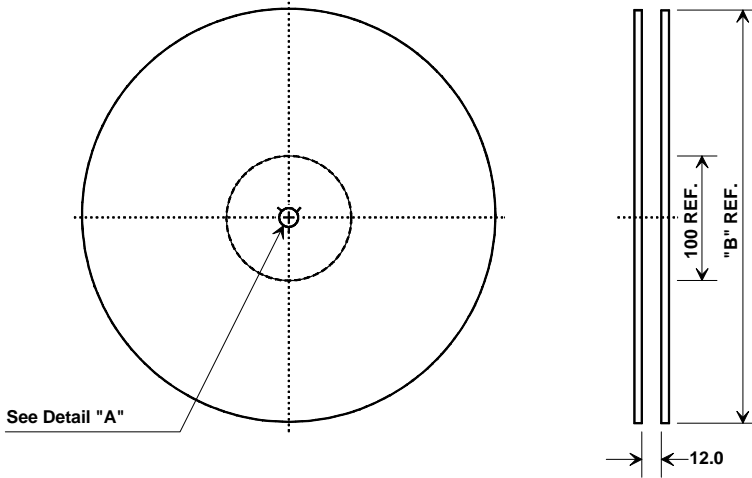
Materials	
Solder Pad Termination	Au plating 30 - 60 μinches (76.2-152 μm) over 80-200 μinches (203-508 μm) Ni.
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phosphorus) 100-200 μinches Thick
Body	Al ₂ O ₃ Ceramic
Pb Free	

Electrical Connections	
Connection	Terminals
Input	2
Output	9
Ground	All Others

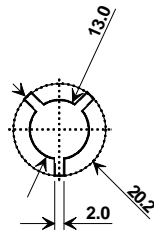
Recommended PCB Footprint



Tape and Reel Specifications



"B" Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000
Tape and Reel Standard Per ANSI / EIA 481		



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions	
Ao	4.55 mm
Bo	12.04 mm
Ko	2.13 mm
Pitch	8.00 mm
W	24.00 mm

