

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

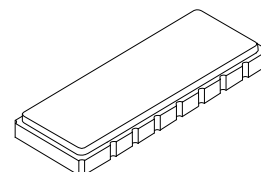


Absolute Maximum Ratings

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

SF2055A

**240.050 MHz
SAW Filter**



SM1154-14

Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	f_0			240.05		MHz
Insertion Loss at f_0					5.0	dB
3 dB Bandwidth			±150			kHz
In-band Ripple, $f_0 \pm 100$ kHz					0.5	dB _{P-P}
Amplitude Variation, $f_0 \pm 100$ kHz				0.5	1	dB
Relative Group Delay, $f_0 \pm 100$ kHz					0.5	μs _{P-P}
Attenuation:	f_0 -600 kHz		36	40		dB
	f_0 +600 kHz		36	46		
	f_0 -1.2 MHz		40	48		
	f_0 +1.2 MHz		38	46		
	f_0 -21.6 MHz		60	72		
	f_0 +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, $f_0 \pm 100$ kHz				1.85 ±0.6		μs

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, YYWWS##		
Standard Reel Quantity	Reel Size 7 Inch	500 Pieces/Reel	
	Reel Size 13 Inch	2000 Pieces/Reel	

Electrical Connections

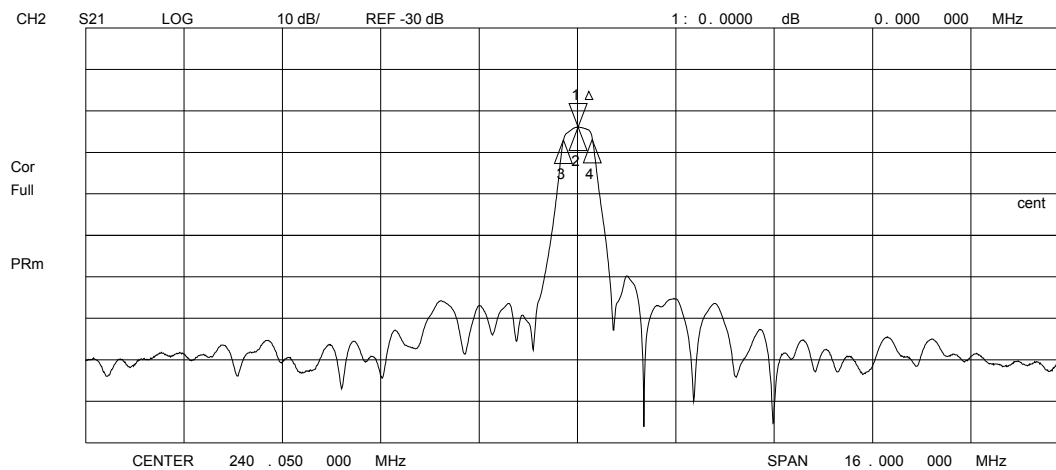
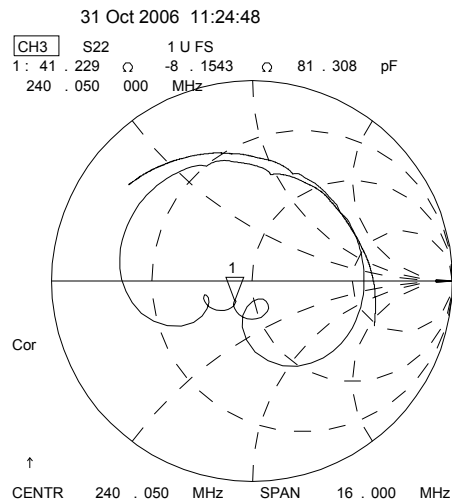
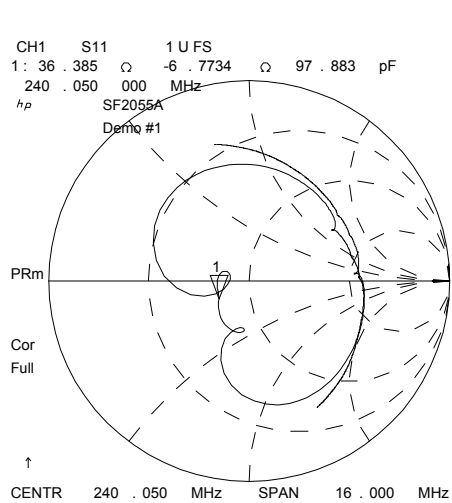
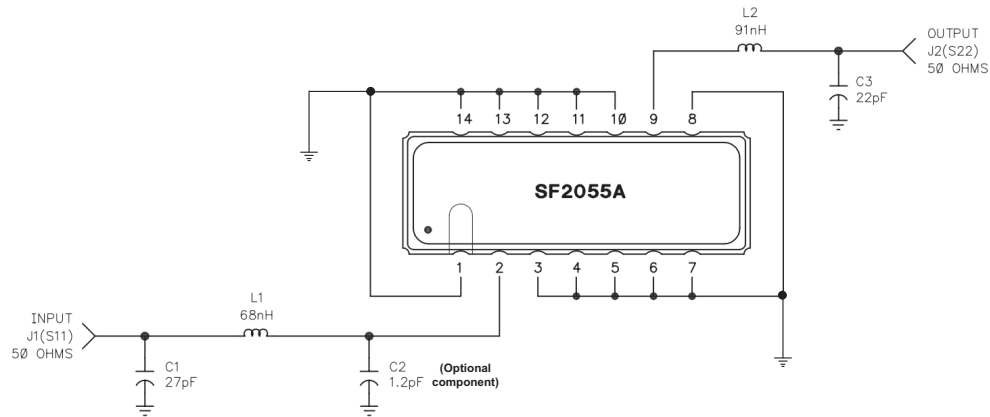
Connection	Input	Output	Ground
Terminals	2	9	All others



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

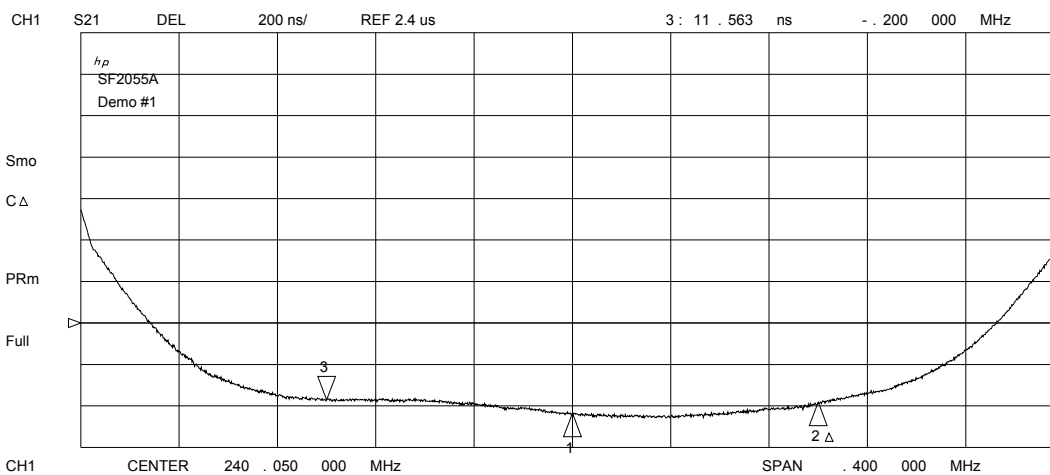
NOTES:

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, f_c .
3. The design, manufacturing process, and specifications of this filter are subject to change.
4. US and international patents may apply.
5. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

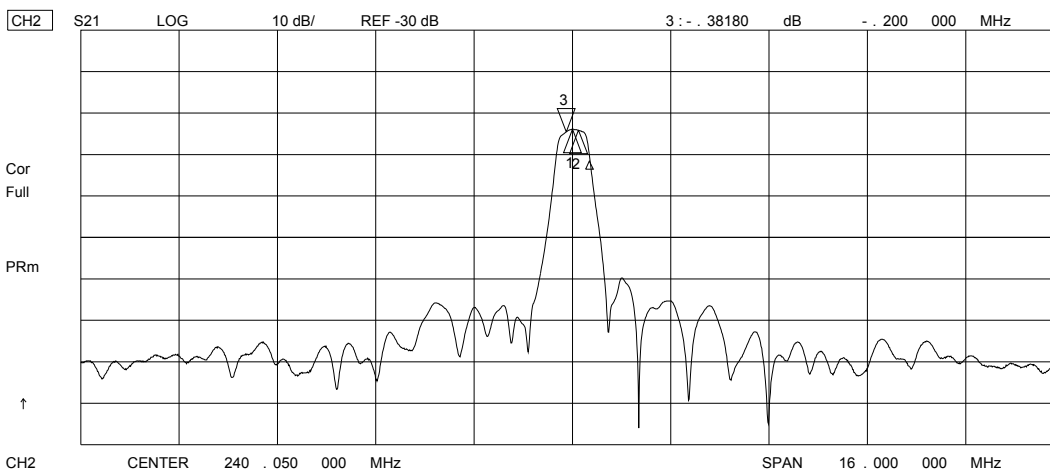


CH2 Markers
 Δ REF=1
BW: .470834 MHz
cent: 240.058572 MHz
Q: 509.86
1 loss: -3.9442 dB

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CH1 Markers
Δ REF=2
mean : 1 . 9877 us
s . dev : 29 . 515 ns
p-p : 94 . 235 ns

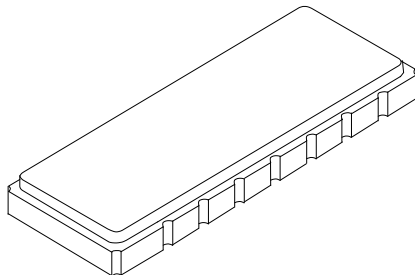


CH2 Markers
Δ REF=2
mean : -4 . 1055 dB
s . dev : . 17190 dB
p-p : . 61840 dB

SM1154-14 Case

14-Terminal Ceramic Surface-Mount Case

11.5 x 4.0 mm Nominal Footprint

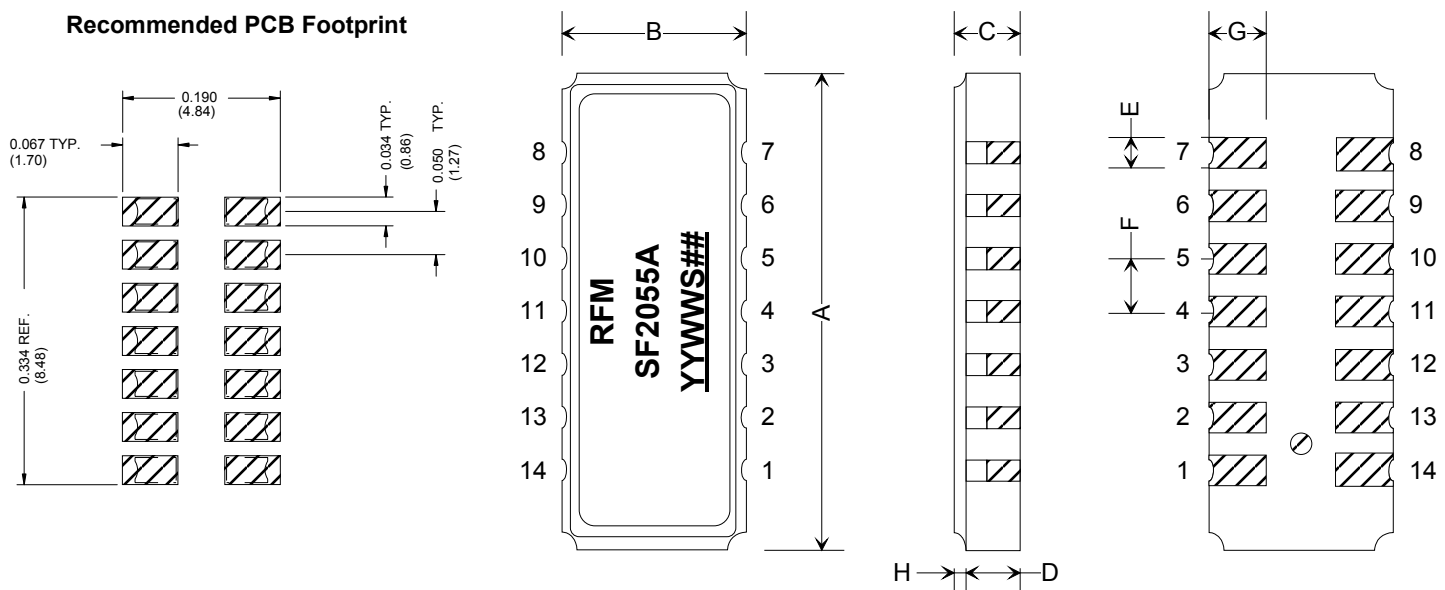


Case Dimensions						
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	11.4	11.5	11.6	.442	0.450	0.458
B	3.8	4.0	4.2	.150	0.157	.166
C	1.4	1.6	1.8	.057	0.063	.069
D				0.041	0.047	0.053
E		0.76			0.030	
F		1.27			0.050	
G		1.27			0.050	
H		0.1			0.004	

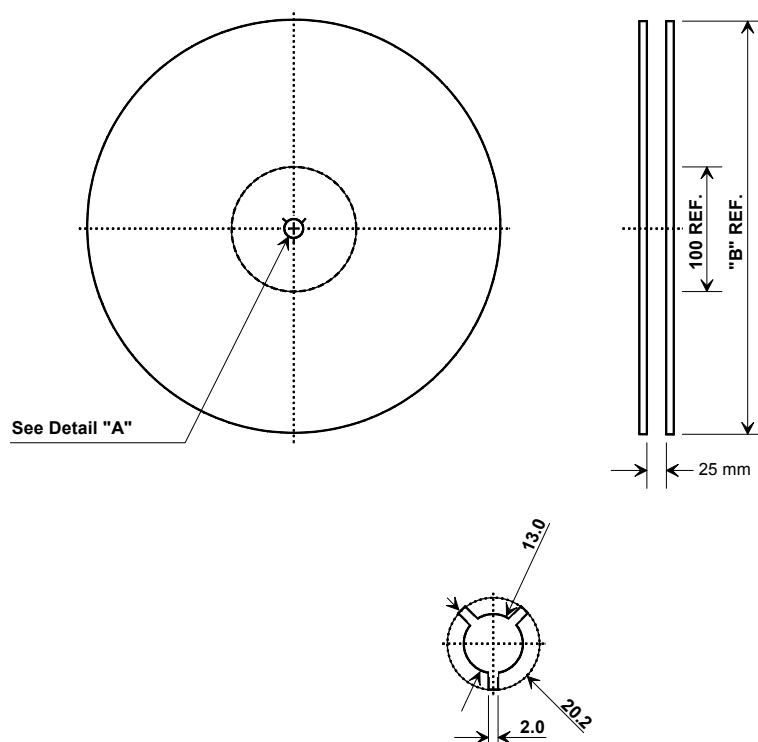
Electrical Connections	
Connection	Terminals
Input	2
Output	9
Ground	All Others

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

Recommended PCB Footprint



Tape and Reel Specifications



"B"		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

