

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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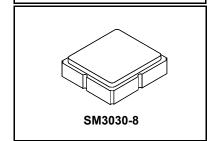




RFM products are now Murata products.

## **SF2167E**

# 1382.24 MHz **SAW Filter**



## SAW Filter for Digital Television

Complies with Directive 2002/95/EC (RoHS)



#### **Characteristics:**

Balance-to-balanced operation

Terminating source/load impedance:  $Z_S = 150 \Omega$ 

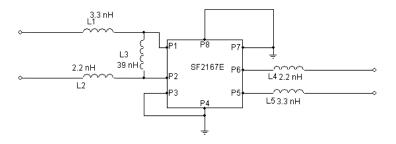
#### **Maximum Rating**

Rating	Value	Units
Input Power Level	0	dBm
DC Voltage on any Non-ground Terminal	3	V
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range	-50 to +95	°C
Maximum Soldering Profile, 5 cycles/ 10 seconds maximum	265	°C

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f <sub>C</sub>			1382.24		MHz
Insertion Loss, 1362.24 to 1402.24 MHz	IL			3.4	4.5	dB
Amplitude Ripple, 1362.24 to 1402.24 MHz				0.5	2.0	dB
Group Delay Ripple, 1362.24 to 1402.24 MHz				10	30	ns <sub>P-P</sub>
Attenuation, 0 dB Reference:						
500 to 1300.18 MHz			42	52		
1464.30 to 1490 MHz			45	50		dB
1490 to 2000 MHz			40	50		

		I I				
Case Style		SM3030-8 3.0 x 3.0 mm Nominal Footprint				
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator		854, YWWS				
Standard Reel Quantity	Reel Size 7 inch		500 Pi	eces/Reel		
	Reel Size 13 inch		3000 P	ieces/Reel		

### Tuning Network, 150 ohm Balanced Source/Load



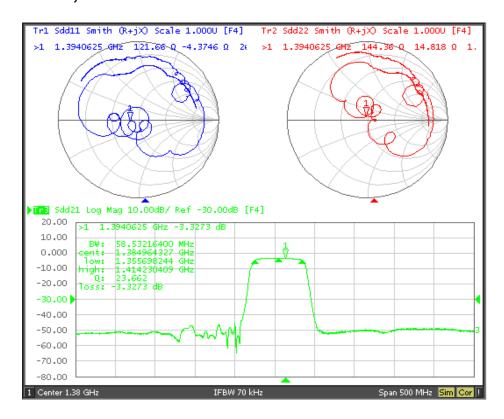


#### US and international patents may apply.

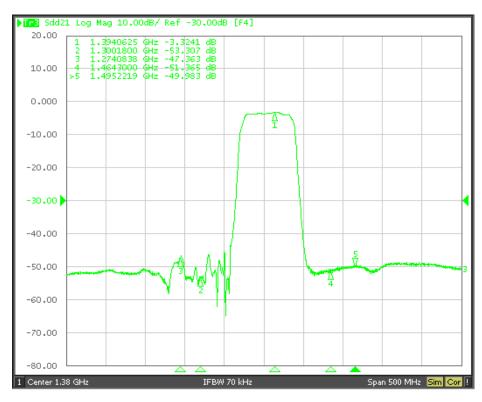
Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

Electrostatic Sensitive Device. Observe precautions for handling.

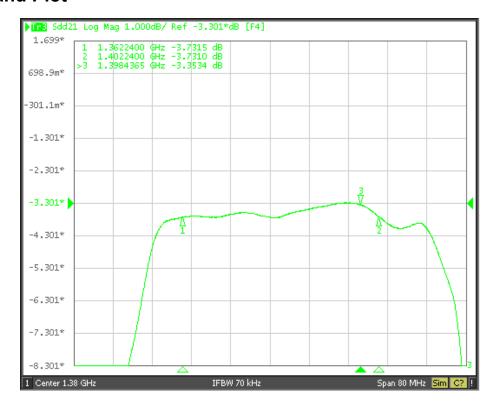
## Filter Wideband S21, S11 and S22 Plots



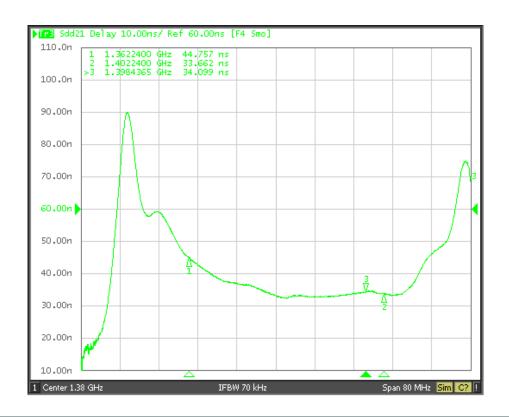
## **Filter Shape Factor Plot**



## **Filter Passband Plot**

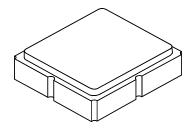


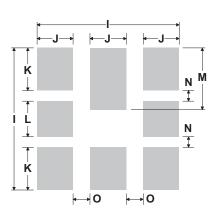
## **Filter Group Delay Plot**



# 8-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint

Case and PCB Footprint Dimensions





**PCB Footprint Top View** 

Dimension		mm			Inches	
Difficusion	Min	Nom	Max	Min	Nom	Max
Α	2.87	3.0	3.13	0.113	0.118	0.123
В	2.87	3.0	3.13	0.113	0.118	0.123
C	1.14	1.27	1.40	0.045	0.050	0.055
D	0.79	0.92	1.05	0.031	0.036	0.041
Е	0.62	0.75	0.88	0.024	0.029	0.034
F	0.47	0.60	0.73	0.018	0.024	0.029
G	0.47	0.60	0.73	0.018	0.024	0.029
Н	1.07	1.20	1.33	0.042	0.047	0.052
_		3.19			0.126	
ſ		0.81			0.032	
K		0.96			0.038	

0.81

1.39

0.23

0.38

0.032

0.055

0.009

0.015

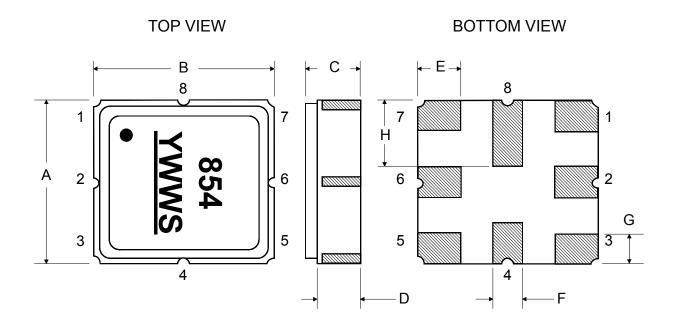
#### **Case Materials**

М

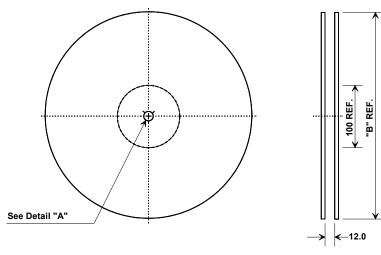
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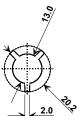
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al <sub>2</sub> O <sub>3</sub> Ceramic			
Pb Free				



## **Tape and Reel Specifications**



	"B"	Quantity Per Reel		
Inches	millimeters	Quality 1 of 1001		
7	178	500		
13	330	3000		



## **COMPONENT ORIENTATION and DIMENSIONS**

Carrier Tape Dimensions					
Ao	3.35 mm				
Во	3.35 mm				
Ko	1.40 mm				
Pitch	8.0 mm				
W	12.0 mm				

