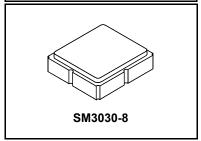




RFM products are now Murata products.

SF2164E

1484.3 MHz **SAW Filter**



· SAW Filter for Digital Television

• Complies with Directive 2002/95/EC (RoHS)



Characteristics:

Differential Source and Load Configuration

Terminating Source/Load Impedance : $Z_S = 150 \Omega$

Maximum Rating

Rating	Value	Units
Input Power Level	+10	dBm
DC Voltage on any Non-ground Terminal	3	V
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range	-50 to +95	°C
Suitable for Lead-free Soldering - Maximum Soldering Profile	260 °C for 30 s	

Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			1484.3		MHz
Insertion Loss, 1464.3 to 1504.3 MHz	IL			2.0	4.5	dB
Amplitude Ripple, 1464.3 to 1504.3 MHz		1		0.6	2.0	dB
Phase Error, 1464.3 to 1504.3 MHz		1		3.2	6.0	deg
Input/Output VSWR, 1464.3 to 1504.3 MHz				2:1	2.5:1	
2 dB Bandwidth			40	60		MHz
Attenuation Referenced to 0 dB:						
50 to 1402.3 MHz			48	60		
1566.3 to 1810.5 MHz			50	60		dB
1810.5 to 4250 MHz			55	65		1 UB
4250 to 6000 MHz			30	38		1

Case Style	SM3030-8 3.0 x 3.0 mm Nominal Footprint	
Lid Symbolization, Y=year, WW=week, S=shift, dot=pin 1 indicator	860, YWWS	
Standard Reel Quantity Reel Size 7 Inch	500 Pieces/Reel	
Reel Size 13 Inch	3000 Pieces/Reel	

Electrical Connections

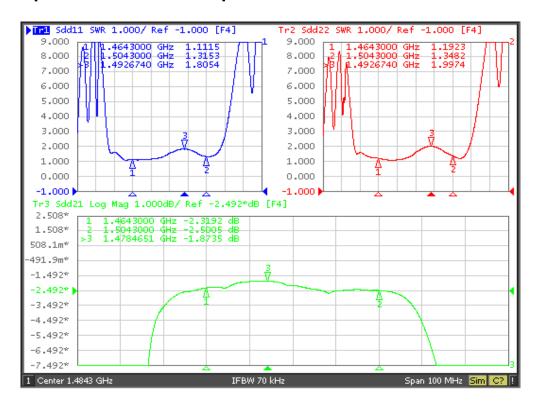
	Connection	Terminals		
Port 1	Balanced Input	1,2		
Port 2	Balanced Output	5,6		
	Ground	All Others		
Dot Indicates Pin 1				



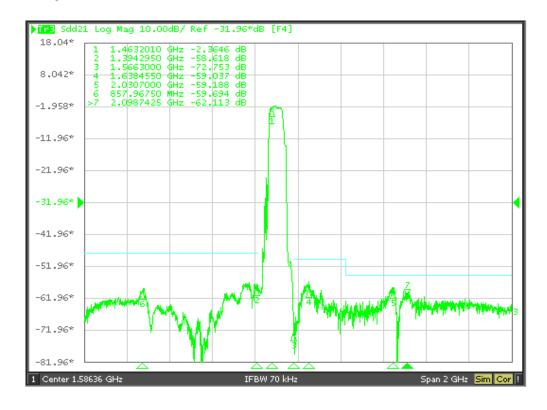
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

- Specification applies to any 30 MHz segment within the passband. US and international patents may apply. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

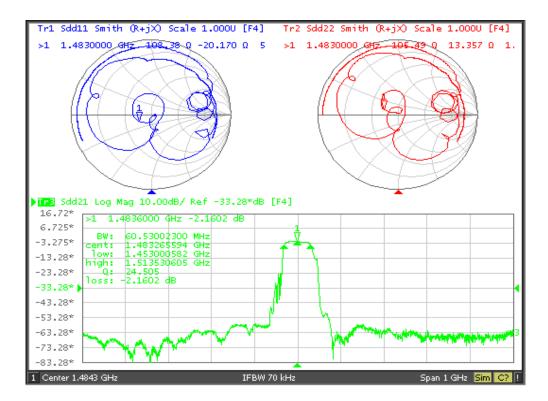
Passband Amplitude and SWR Response



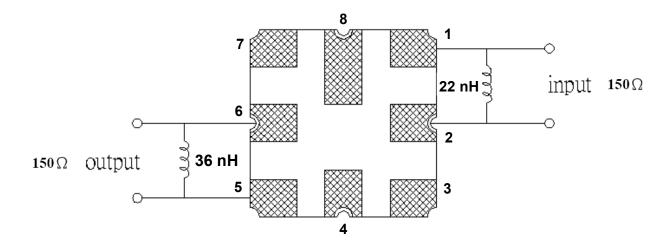
Broadband Response



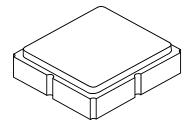
S_{11} , S_{22} and S_{21} Plots

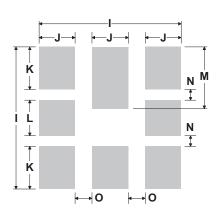


Test Circuit, Bottom View



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





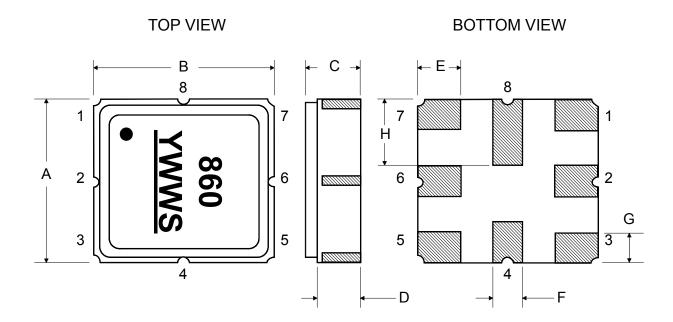
PCB Footprint Top View

Case and PCB Footprint Dimensions

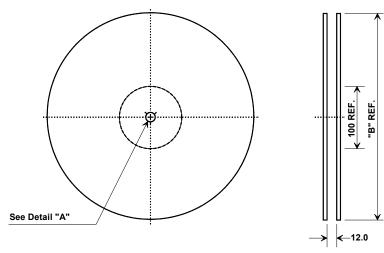
Dimension	mm			Inches		
Dilliension	Min	Nom	Max	Min	Nom	Max
Α	2.87	3.0	3.13	0.113	0.118	0.123
В	2.87	3.0	3.13	0.113	0.118	0.123
С	1.14	1.27	1.40	0.045	0.050	0.055
D	0.79	0.92	1.05	0.031	0.036	0.041
E	0.62	0.75	0.88	0.024	0.029	0.034
F	0.47	0.60	0.73	0.018	0.024	0.029
G	0.47	0.60	0.73	0.018	0.024	0.029
Н	1.07	1.20	1.33	0.042	0.047	0.052
I		3.19			0.126	
J		0.81			0.032	
K		0.96			0.038	
L		0.81			0.032	
М		1.39			0.055	
N		0.23			0.009	
0		0.38			0.015	

Case Materials

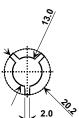
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				



Tape and Reel Specifications



"B"		Quantity Per Reel	
Inches	millimeters	Quantity i et iteet	
7	178	500	
13	330	3000	



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions				
Ao	3.35 mm			
Во	3.35 mm			
Ko	1.4 mm			
Pitch	8.0 mm			
W	12.0 mm			

