

SAW Filter for Digital Television

Complies with Directive 2002/95/EC (RoHS)



Characteristics:

Balance-to-balanced operation

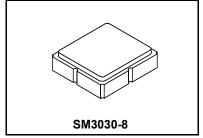
Terminating source impedance : $Z_S = 200 \Omega$ Terminating load impedance : $Z_L = 200 \Omega$

Maximum Rating

Rating	Value	Units
Input Power Level	0	dBm
DC Voltage on any Non-ground Terminal	3	V
Operating Temperature	-30 to +85	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Suitable for Lead-free Soldering - Maximum Soldering Profile	260°C for 30 s	

SF2032E

1220 MHz SAW Filter



Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			1220		MHz
Insertion Loss, 1206 to 1234 MHz	IL			4.0	5.7	dB
Amplitude Ripple, 1206 to 1234 MHz				1.9	3.5	dB
Attenuation Referenced to 0 dB:						
300 to 1118 MHz			40	59		
1118 to 1146 MHz			45	60		dB
1300 to 2000 MHz			45	59		
Group Delay Ripple				15		ns _{P-P}

Case Style	SM3030-8 3.0 x 3.0 mm Nominal Footprint	
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator	504, YWWS	
Standard Reel Quantity Reel Size 7 Inch	500 Pieces/Reel	
Reel Size 13 Inch	3000 Pieces/Reel	

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

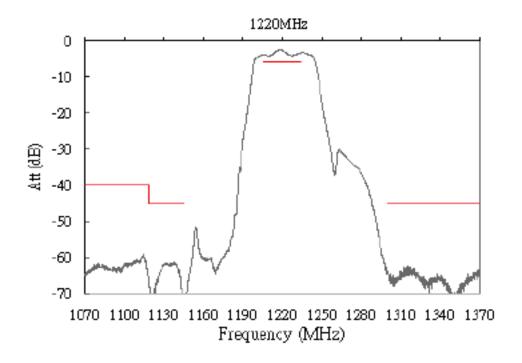


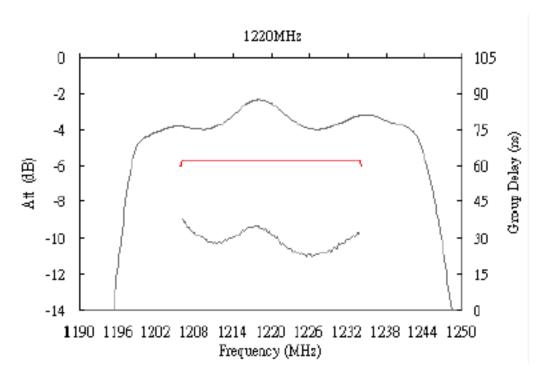
NOTES:

- 1. US and international patents may apply.
- 2. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.
- 3. Electrostatic Sensitive Device. Observe precautions for handling.

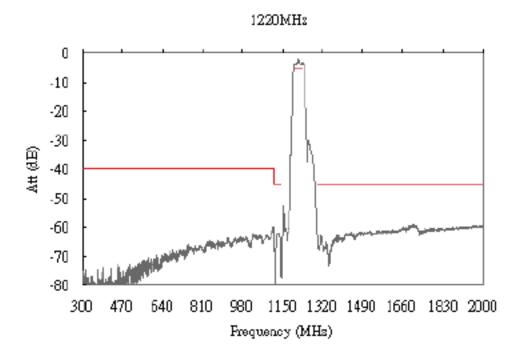
D. Transfer Function:

Narrowband

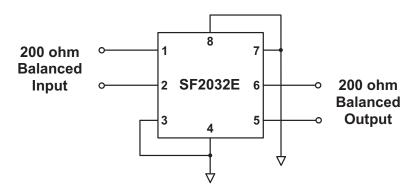




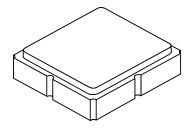
Wideband

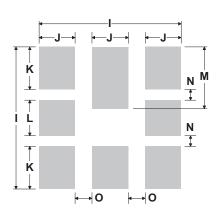


SF2032E Test Circuit



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





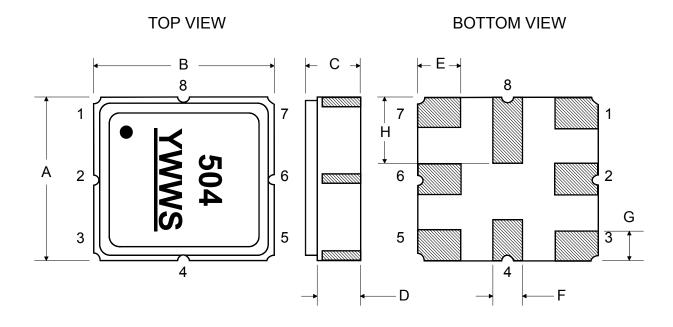
PCB Footprint Top View

Case and PCB Footprint Dimensions

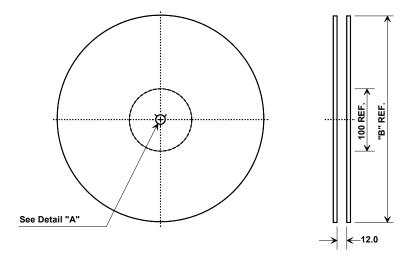
Dimension	mm			Inches		
Difficusion	Min	Nom	Max	Min	Nom	Max
Α	2.87	3.0	3.13	0.113	0.118	0.123
В	2.87	3.0	3.13	0.113	0.118	0.123
С	1.14	1.27	1.40	0.045	0.050	0.055
D	0.79	0.92	1.05	0.031	0.036	0.041
E	0.62	0.75	0.88	0.024	0.029	0.034
F	0.47	0.60	0.73	0.018	0.024	0.029
G	0.47	0.60	0.73	0.018	0.024	0.029
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

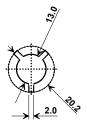
Materials			
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel		
Lid Plating	2.0 to 3.0 µm Nickel		
Body	Al ₂ O ₃ Ceramic		
Pb Free			



Tape and Reel Specifications



"B" Nominal Size		Quantity Per Reel
Inches	millimeters	
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		

