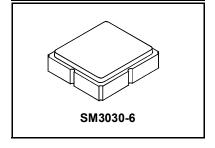


RoHS Compliance
This component is compliant with RoHS directive.
This component was always
RoHS compliant from the first date of manufacture.

SF2251E

1600 MHz SAW Filter



· Low-loss RF SAW Filter

- 3.0 x 3.0 x 1.4 mm Surface-mount Case
- No Matching Required for 50Ω Operation

Absolute Maximum Ratings

Rating	Value	Units
Incident Power in Passband	+10	dBm
DC Voltage on any Non-ground Terminal	3	VDC
Operating Temperature Range	-55 to +85	°C
Storage Temperature Range in Tape and Reel	-55 to +95	°C
Maximum Soldering Profile, 5 cycles/10 seconds maximum	265	°C

Electrical Characteristics

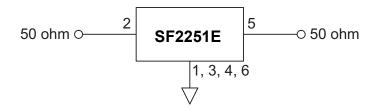
Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			1600		MHz
Insertion Loss, 1580 to 1620 MHz	IL			3.15	5.00	dB
1500 MHz Attenuation Referenced to 0 dB			45	64		dB
1700 MHz Attenuation Referenced to 0 dB			40	47		dB
Terminating Source Impedance	Z _S			50		Ω
Terminating Load Impedance	Z_{L}			50		Ω

Input/Output Impedance Match	No matching network required for 50 ohm source/load
Case Style	SM3030-6
Lid Symbolization	992

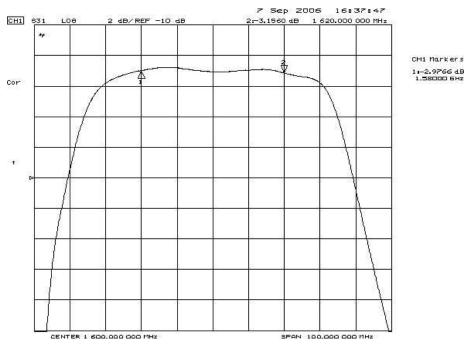
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. **NOTES:**

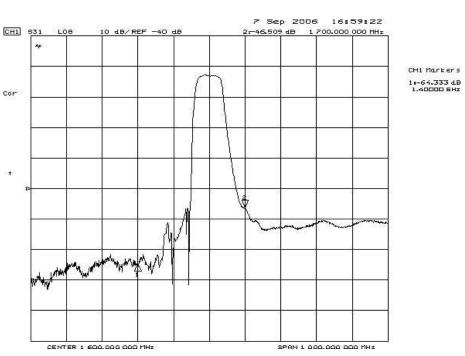
- 1. US and international patents may apply.
- 2. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

Matching Circuit

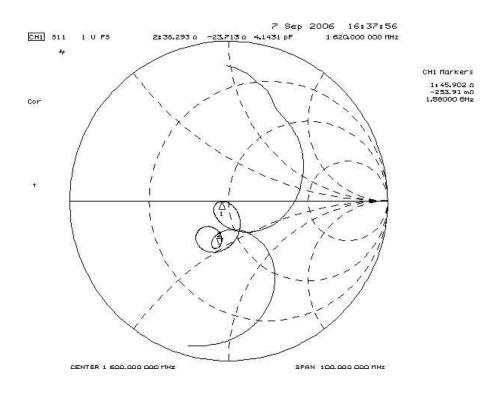


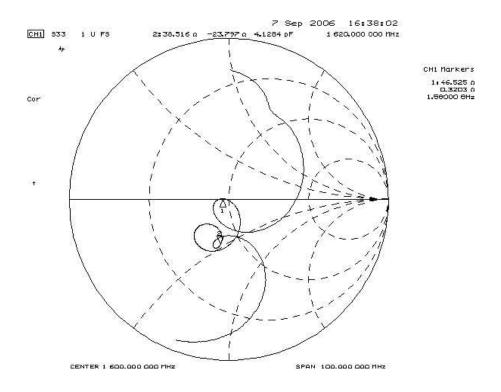
Frequency Response Plots





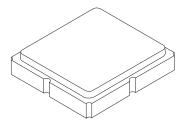
Input/Output Impedance Plots

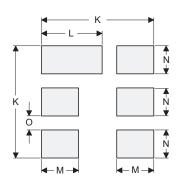




6-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint







PCB Footprint Top View

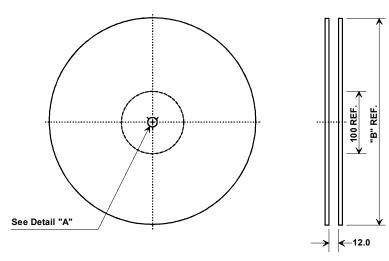
Dimension	mm			Inches			
Dilliension	Min	Nom	Max	Min	Nom	Max	
Α	2.87	3.00	3.13	0.113	0.118	0.123	
В	2.87	3.00	3.13	0.113	0.118	0.123	
С	1.12	1.25	1.38	0.044	0.049	0.054	
D	0.77	0.90	1.03	0.030	0.035	0.040	
E	2.67	2.80	2.93	0.105	0.110	0.115	
F	1.47	1.60	1.73	0.058	0.063	0.068	
G	0.72	0.85	0.98	0.028	0.033	0.038	
Н	1.37	1.50	1.63	0.054	0.059	0.064	
I	0.47	0.60	0.73	0.019	0.024	0.029	
J	1.17	1.30	1.43	0.046	0.051	0.056	
K		3.20			0.126		
L		1.70			0.067		
М		1.05			0.041		
N		0.81			0.032		
0		0.38			0.015		

Case Materials

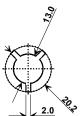
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Body Al ₂ O ₃ Ceramic			
Pb Free				

TOP VIEW BOTTOM VIEW A 2 992 4 L D J J

Tape and Reel Specifications



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



COMPONENT ORIENTATION and DIMENSIONS

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

