Preliminary



• Low-loss SAW Filter

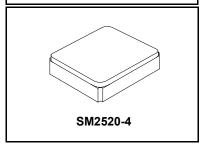
- 2.5 x 2.0 x 1.0 mm Surface-Mount Case
- · No Matching Circuit Required

Absolute Maximum Ratings

•		
Rating	Value	Units
Maximum Input Power	+5	dBm
Maximum DC Voltage on any Non-ground Terminal	5	VDC
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Maximum Soldering Profile, 5 cycles maximum	265 °C	for 10 s

SF2236G

1642.5 MHz **SAW Filter**



Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Nominal Operating Frequency	f _C			1642.5		MHz
Passband Insertion Loss, 1625 to 1660 MHz	IL			2.1	3.5	dB
Amplitude Ripple, 1625 to 1660 MHz				0.9	2.0	dB _{P-P}
Attenuation Referenced to 0 dB:						
DC to 1500 MHz			21	28		
1525 to 1559 MHz			30	34		dB
1700 to 2050 MHz			30	33		
2050 to 3500 MHz			25	33		
VSWR, 1625 to 1660 MHz				1.5:1	2.3:1	
Source impedance	Z _S			50		Ω
Load impedance	Z _L			50		Ω
Operating Temperature Range	T _A		-20		+75	°C

Single-ended Input / Output Impedance Match	No matching network required for operation at 50 ohms
Case Style	SM2520-4
Lid Symbolization (3K = Filter ID, Y = year, W = week)	3K, YW

Electrical Connections

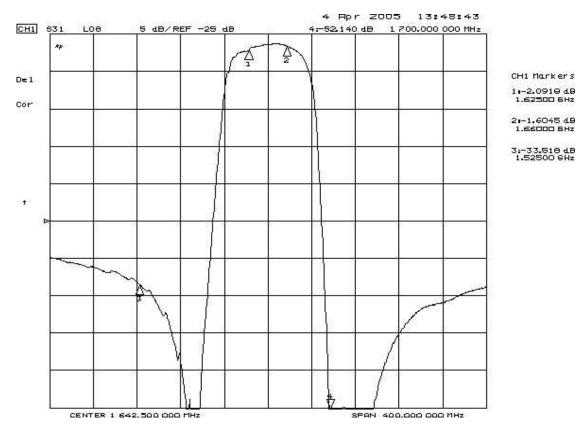
Connection	Terminals		
Input	1		
Output	3		
Ground	All others		

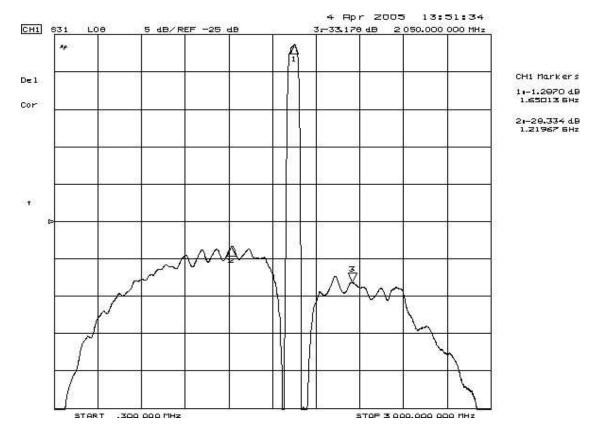


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

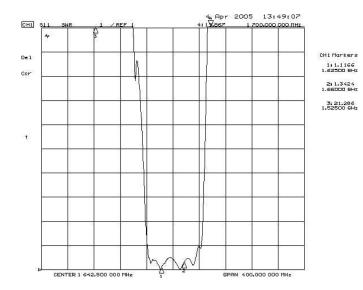
- US and international patents may apply. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

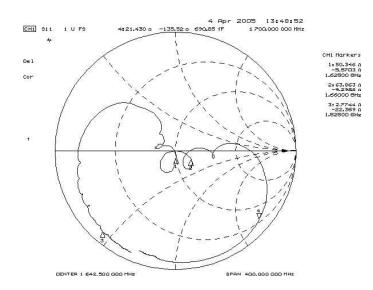
Filter Amplitude Plots

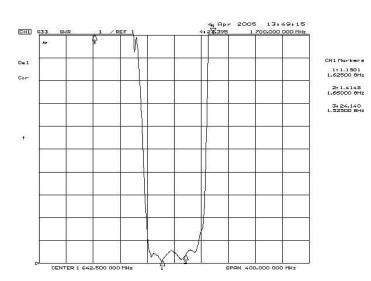


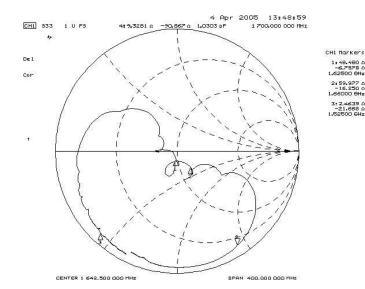


Filter Impedance Plots



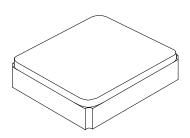




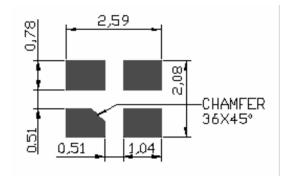


SM2520-4 Case

4-Terminal Ceramic Surface-Mount Case 2.5 X 2.0 mm Nominal Footprint



PCB Footprint (mm)



Case Dimensions

Dimension	mm			Inches			
Difficusion	Min	Nom	Max	Min	Nom	Max	
Α	1.88	2.0	2.12	0.074	0.079	0.083	
В	2.38	2.5	2.62	0.094	0.098	0.103	
С	-	-	1.00	1	-	0.039	
D	0.67	0.80	0.83	0.026	0.031	0.033	
E	0.80	0.95	1.10	0.031	0.037	0.433	
F	0.55	0.70	0.85	0.022	0.028	0.033	
G	0.50	0.60	0.70	0.020	0.024	0.028	

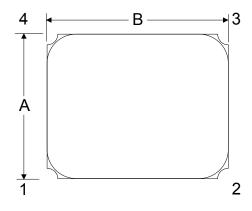
Electrical Connections

	Connection	Terminals
Port 1	Single-ended Input	1
Port 2	Single-ended Output	3
	Ground	All others

Case Materials

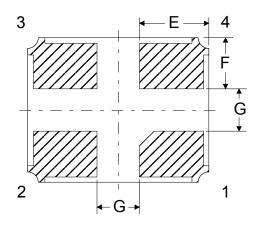
Materials				
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				

TOP VIEW

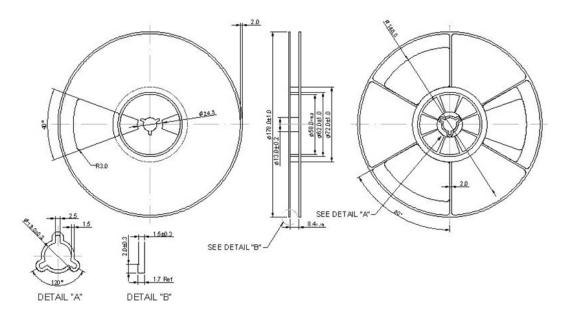


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BOTTOM VIEW



Reel Dimension



Tape Dimension

