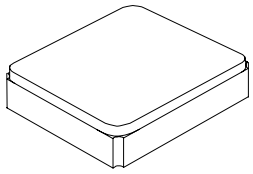
SF2098H

915 MHz SAW Filter

- ***Low Insertion Loss***
- ***Direct Match to 50 ohms***
- ***2.0 x 1.6 mm Surface-mount Case***
- ***Complies with Directive 2002/95/EC (RoHS)***



SM2016-4

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+15	dBm
Maximum DC Voltage on any Non-ground Terminal	3	VDC
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Maximum Soldering Profile (5 cycles maximum)	265°C for 10 s	

Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	f_C			915		MHz
Insertion Loss, 902 to 928 MHz	IL			2.0	3.0	dB
Amplitude Ripple, Peak-to-Peak, 902 to 928 MHz				0.8	1.5	
Input/Output Return Loss, 902 to 928 MHz				9.5	8.0	
Group Delay Ripple, Peak-to-Peak, 902 to 928 MHz				35	50	ns
Attenuation Referenced to 0 dB:						dB
10 to 857.5 MHz			40	55		
857.5 to 882.5 MHz			35	48		
970 to 1005 MHz			35	48		
1005 to 1110 MHz			45	52		
1110 to 3000 MHz			30	35		
Source impedance	Z_S			50		Ω
Load impedance	Z_L			50		Ω

Single-ended Input / Output Impedance Match	No matching network required for operation at 50 ohms
Case Style	SM2016-4
Lid Symbolization (*Y*=year, *W*=week)	3H, YW

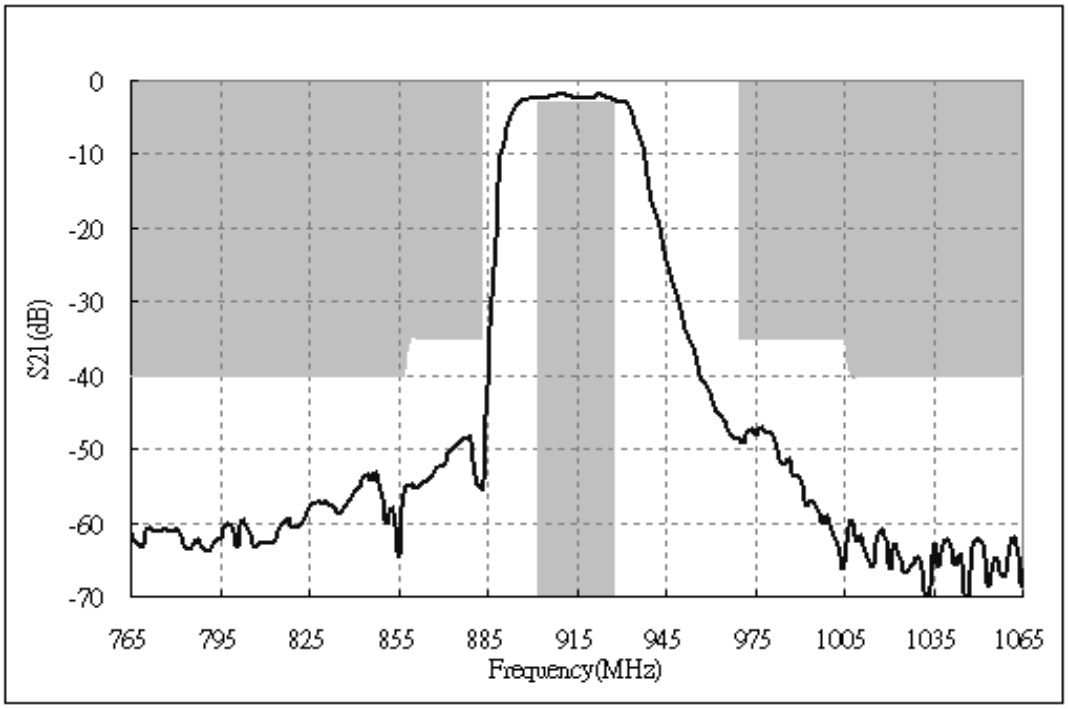
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

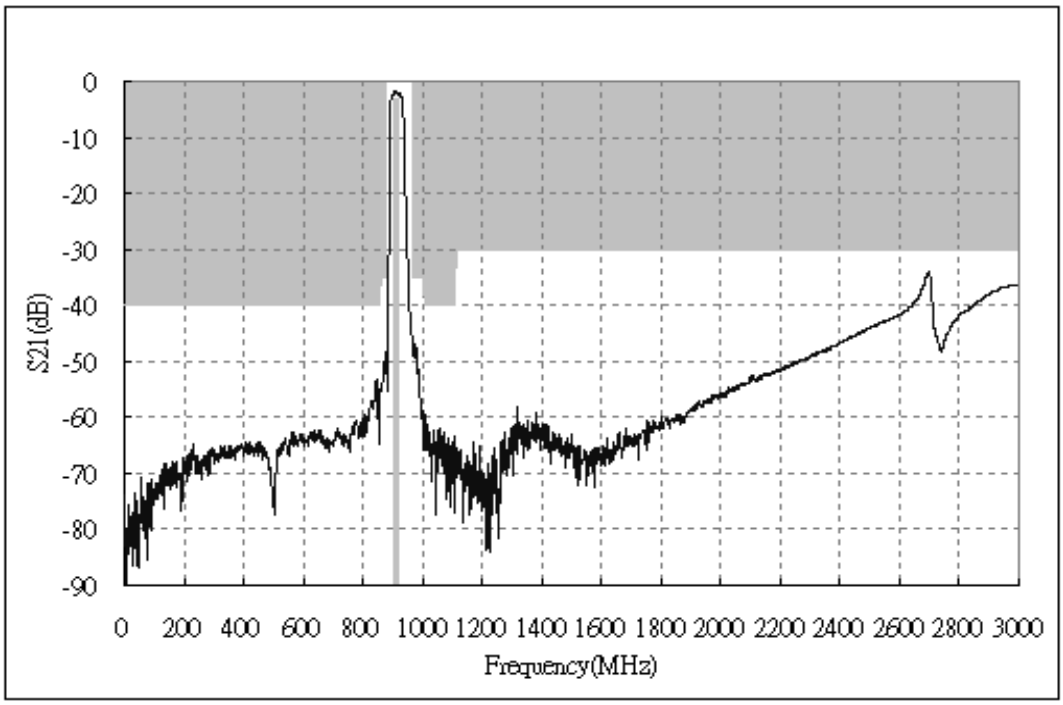
Notes:

1. US and international patents may apply.
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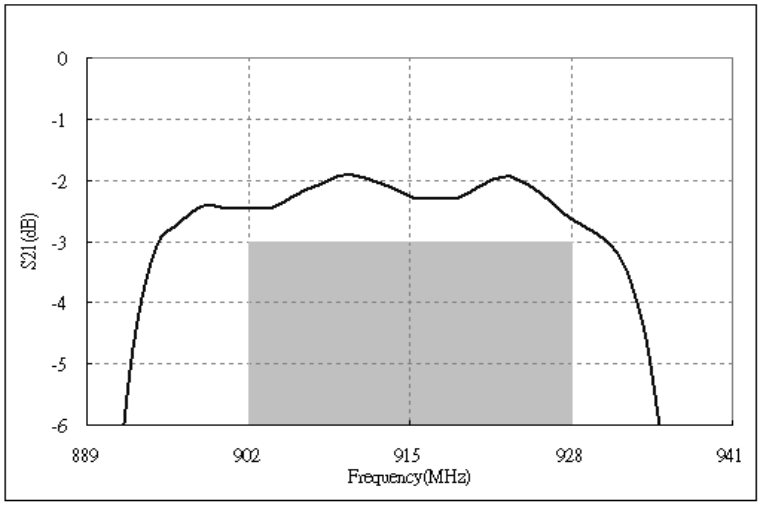
Filter Response Plots



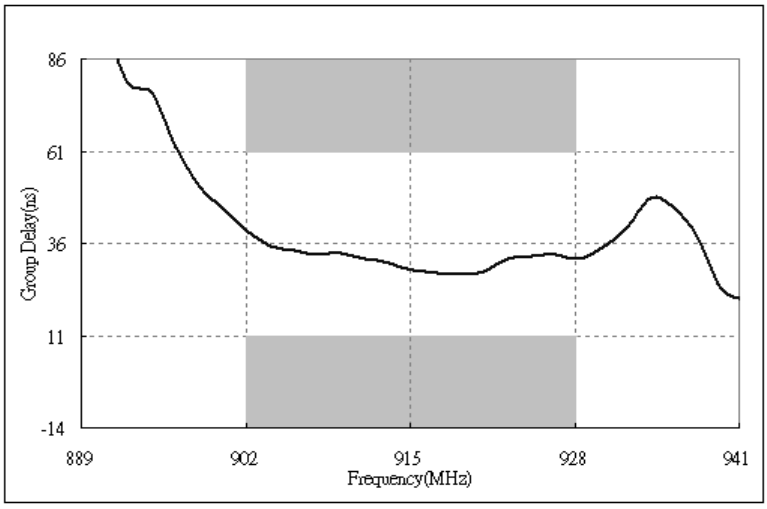


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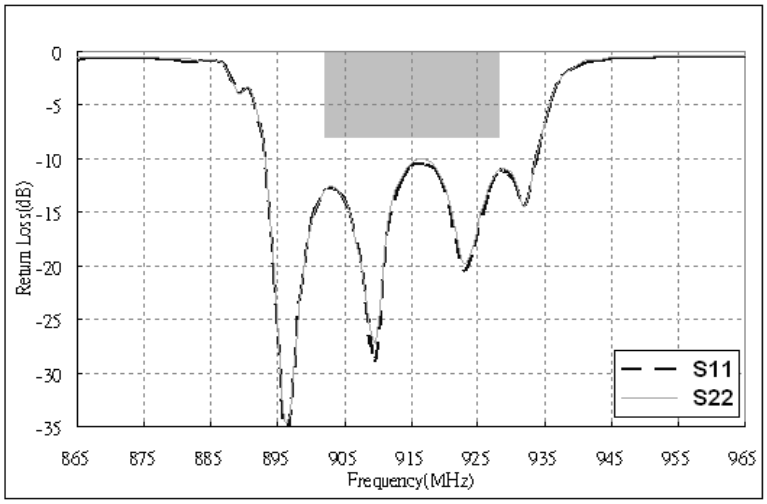
Passband Amplitude Plot



Passband Group Delay Plot

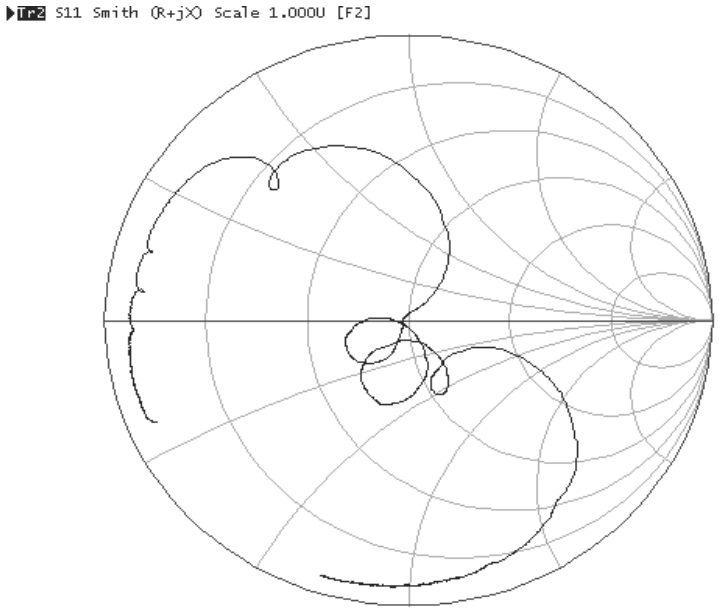


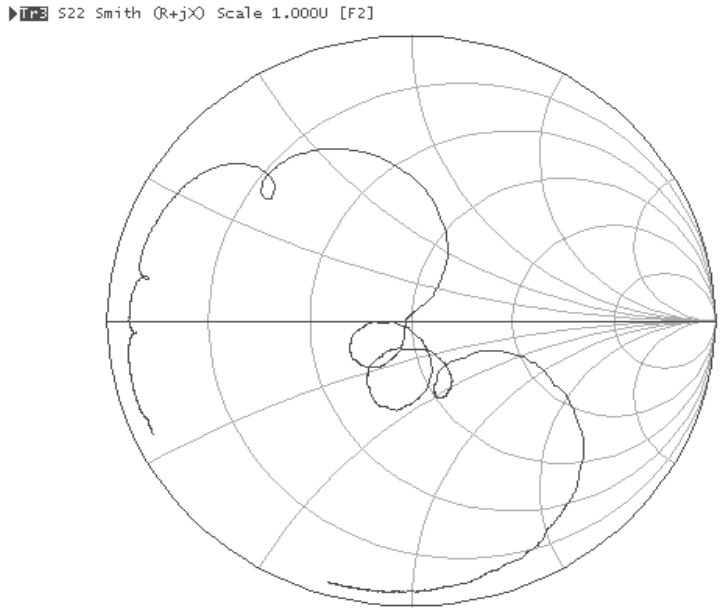
Passband Return Loss Plot



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Input and Output Impedance Plots



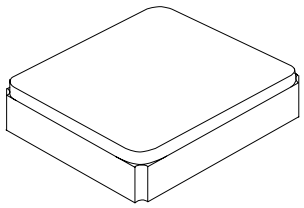


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SM2016-4 Case

4-Terminal Ceramic Surface-Mount Case

2.0 X 1.6 mm Nominal Footprint

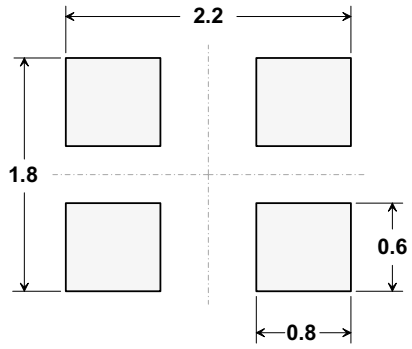


Electrical Connections

Connection	Terminals
Input	1
Output	3
Ground	2, 4

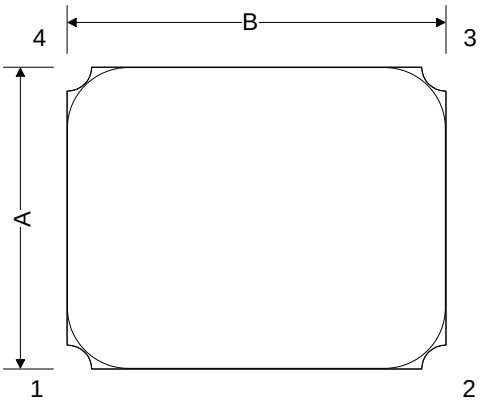
Dimensions	Millimeters			Inches		
	Min	Nom	Max	Min	Nom	Max
A		1.60			0.063	
B		2.00			0.079	
C		0.90			0.035	
D		0.10			0.004	
E		0.10			0.004	
F		0.70			0.028	
G		0.50			0.020	
H		0.10			0.004	

PCB PAD LAYOUT

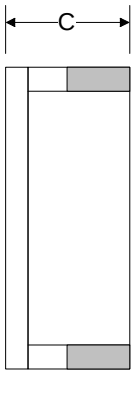


Dimensions in mm
All pads have the same dimensions

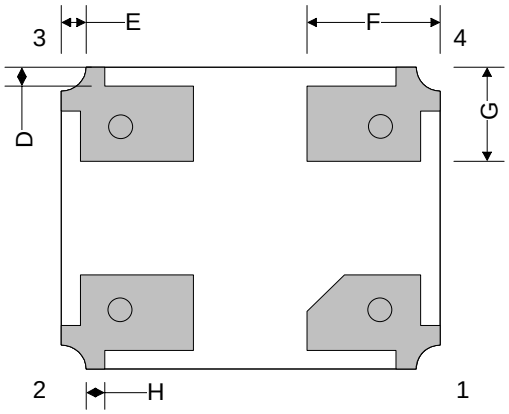
TOP VIEW



SIDE VIEW

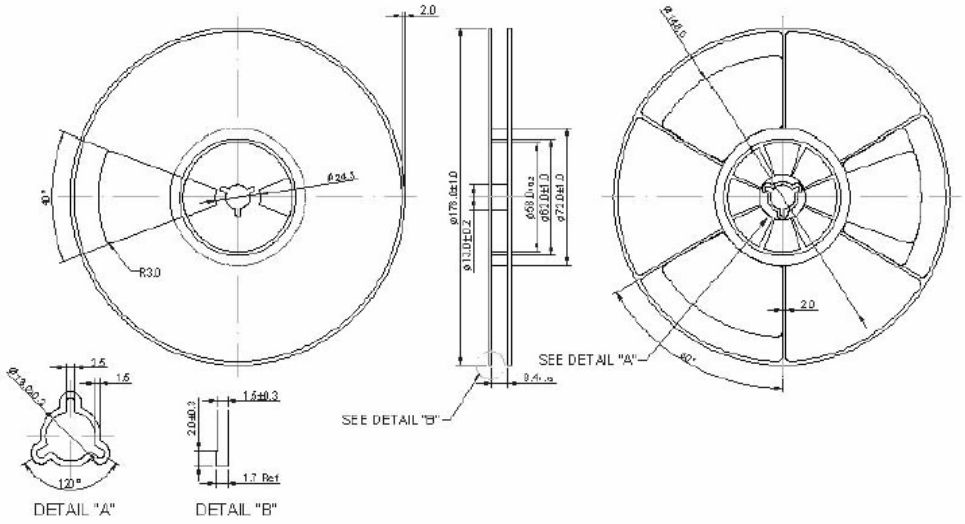


BOTTOM VIEW

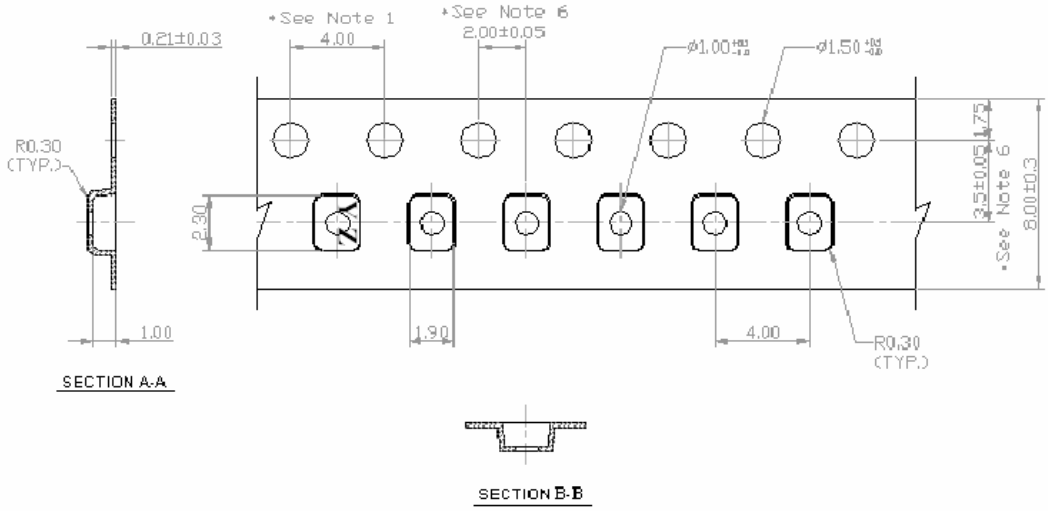


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Reel Dimensions



2. TAPE DIMENSION



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