



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

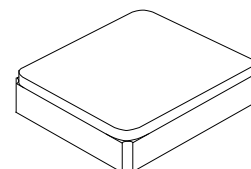


Absolute Maximum Ratings

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 +100	°C
Storage Temperature of Device	-40 to +100	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Maximum Soldering Profile (5 cycles maximum)	265°C for 10 s	

SF2098H

**915 MHz
SAW Filter**



SM2016-4

Electrical Characteristics (-40 to +85°C only)

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					

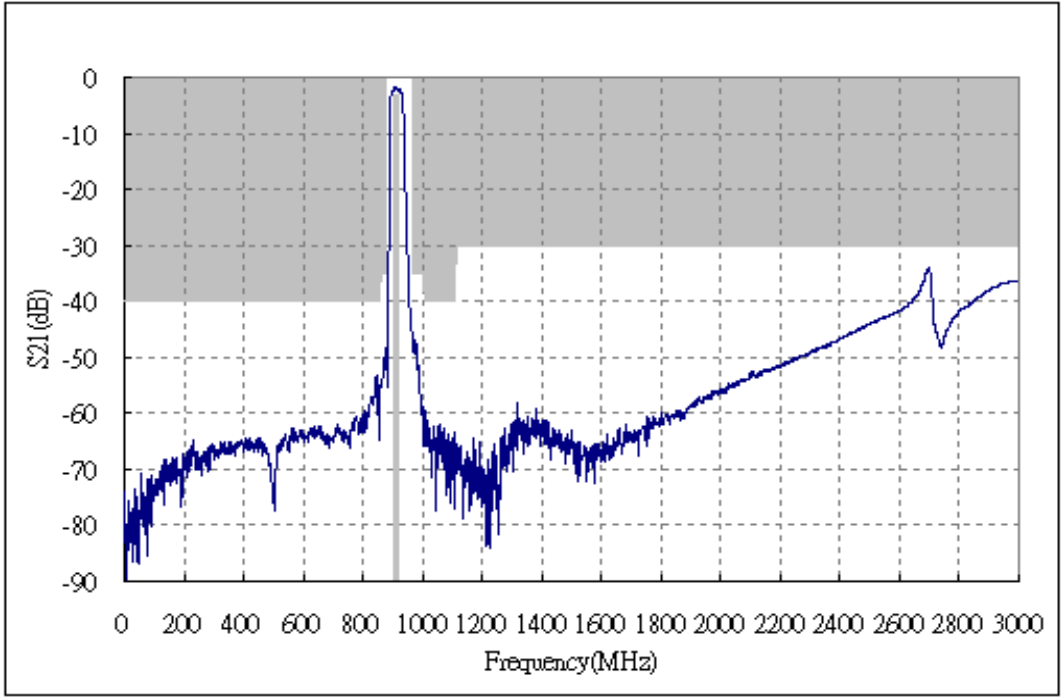
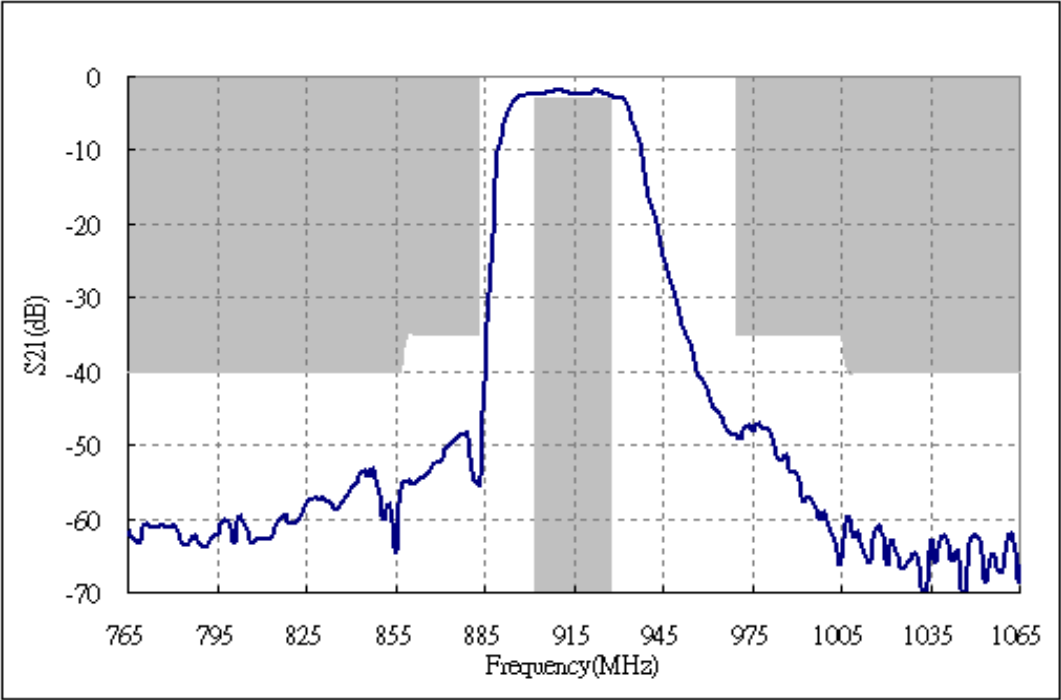


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

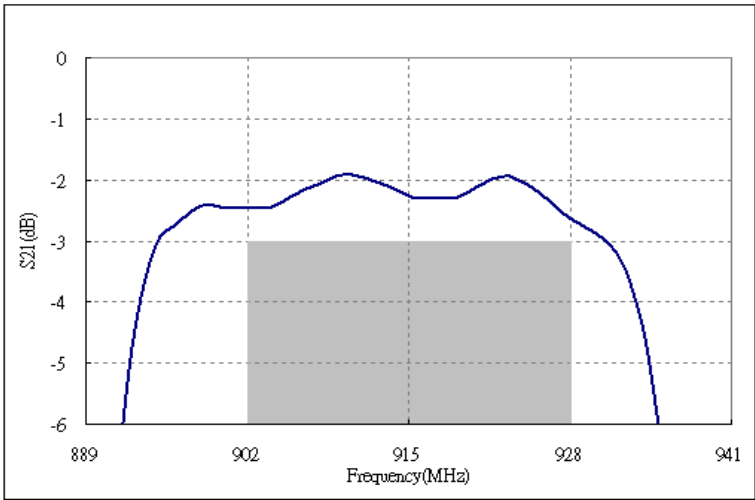
NOTES:

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

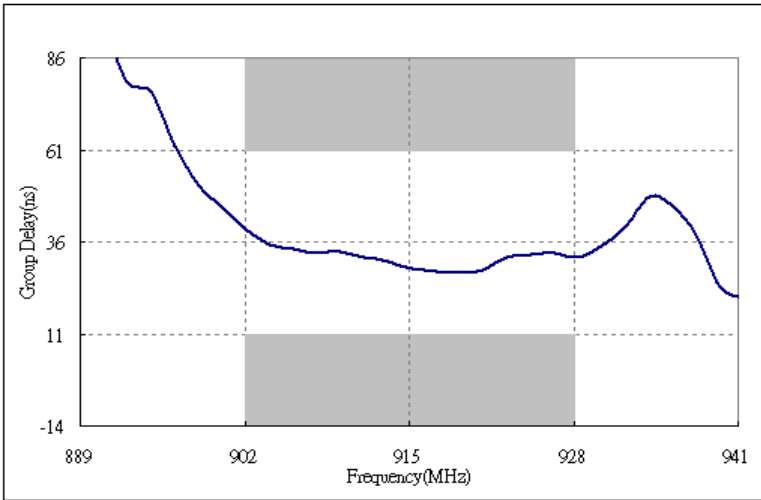
Filter Response Plots



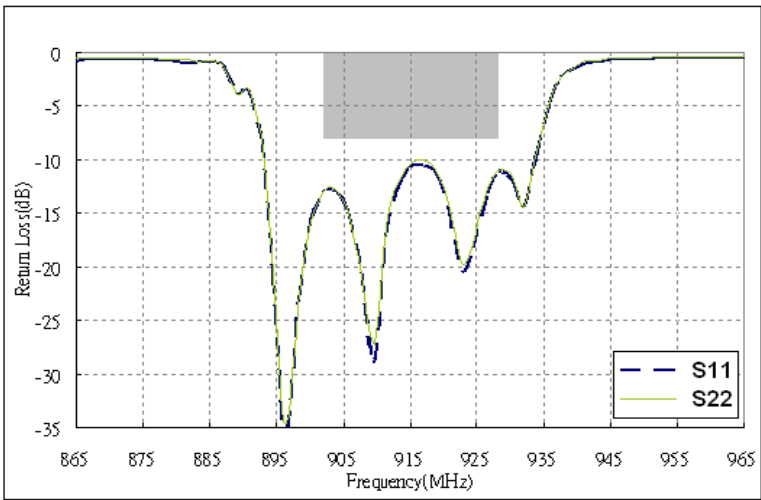
Passband Amplitude Plot



Passband Group Delay Plot

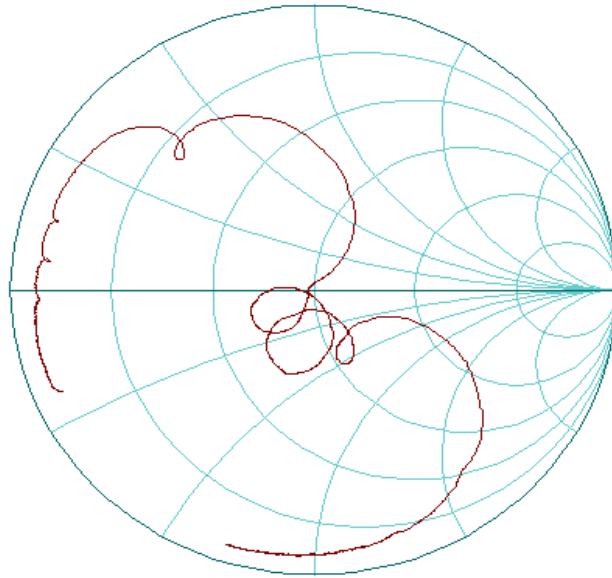


Passband Return Loss Plot

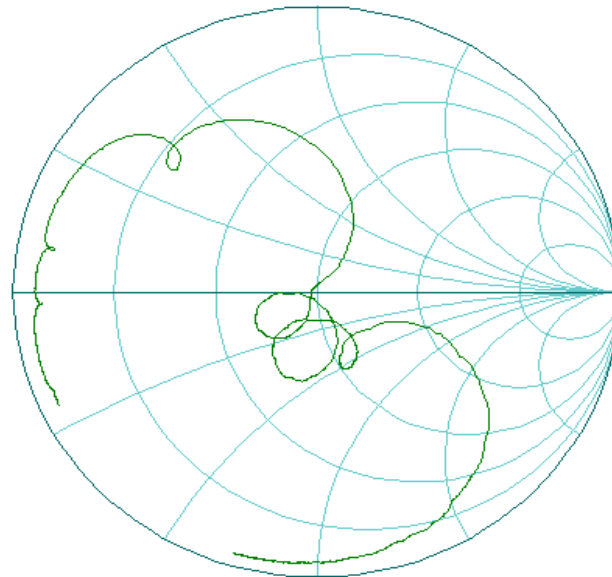


Input and Output Impedance Plots

▶ **[F2]** S11 Smith (R+jX) Scale 1.000U [F2]

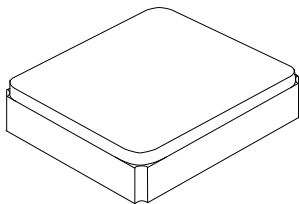


▶ **[F2]** S22 Smith (R+jX) Scale 1.000U [F2]



SM2016-4 Case

4-Terminal Ceramic Surface-Mount Case 2.0 X 1.6 mm Nominal Footprint

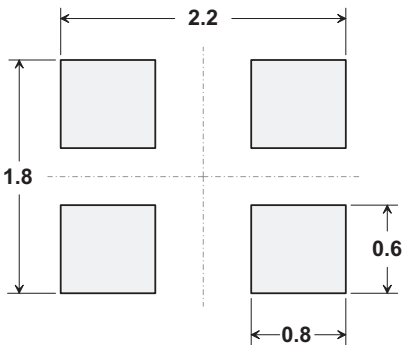


Electrical Connections

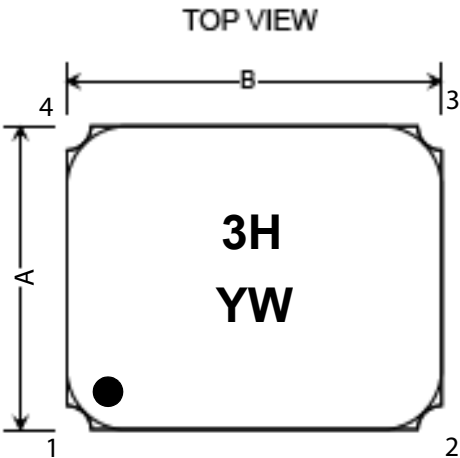
Connection	Terminals
Input	1
Output	3
Ground	2, 4

Dimensions	Millimeters			Inches		
	Min	Nom	Max	Min	Nom	Max
A	1.57	1.60	1.73	0.062	0.063	0.068
B	1.97	2.00	2.13	0.078	0.079	0.084
C	0.55	0.65	0.75	0.021	0.025	0.029
D		0.10			0.004	
E		0.10			0.004	
F	0.57	0.70	0.83	0.022	0.028	0.033
G	0.37	0.50	0.63	0.015	0.020	0.025
H		0.10			0.004	

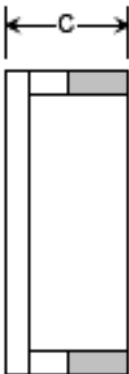
PCB PAD LAYOUT



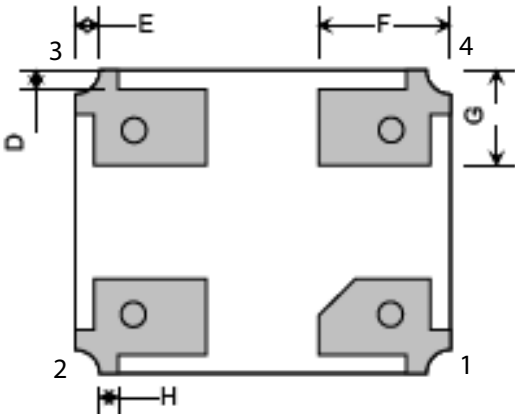
Dimensions in mm
All pads have the same dimensions



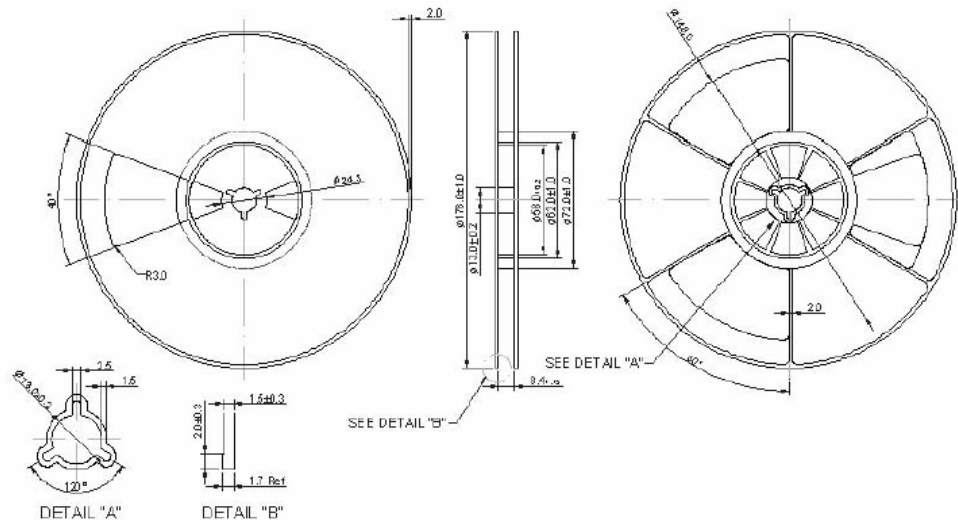
SIDE VIEW



BOTTOM VIEW



Reel Dimensions



2. TAPE DIMENSION

