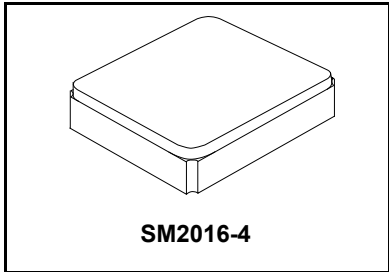


SF2259H

**921.5 MHz
SAW Filter**



- RF SAW Filter, 921.5 MHz, 13 MHz Bandwidth
- 2.0 x 1.6 x 0.9 mm Surface-mount Case
- Input/Output Impedance 50Ω/50Ω
- Complies with Directive 2002/95/EC (RoHS)
- Complies with AEC-Q200 Qualification Testing



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	265 °C for 10 s	

Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	f_C			921.5		MHz
Maximum Insertion Loss, 915 - 928 MHz	IL_{MAX}			2.0	3.0	dB
Amplitude Ripple, p-p, 915 - 928 MHz				0.3	1.0	
Return Loss, 915 - 928 MHz			10	12		ns
Group Delay Ripple, 915 - 928 MHz				15	50	
Attenuation, Referenced to 0 dB:						dB
10 to 857.5 MHz			40	52		
857.5 to 895 MHz			22	45		
970 to 1005 MHz			35	40		
1005 to 1110 MHz			40	56		
1110 to 3000 MHz			30	39		
Terminating Source impedance	Z_S			50		Ω
Terminating 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	3W

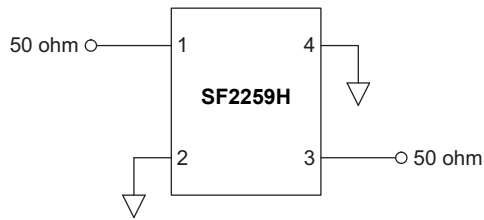


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

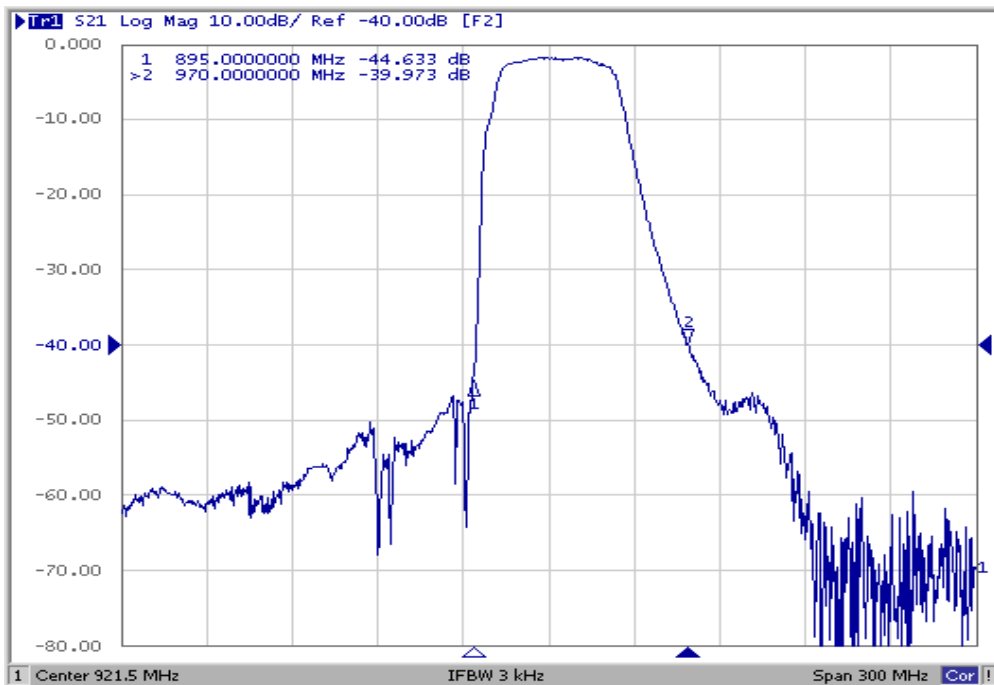
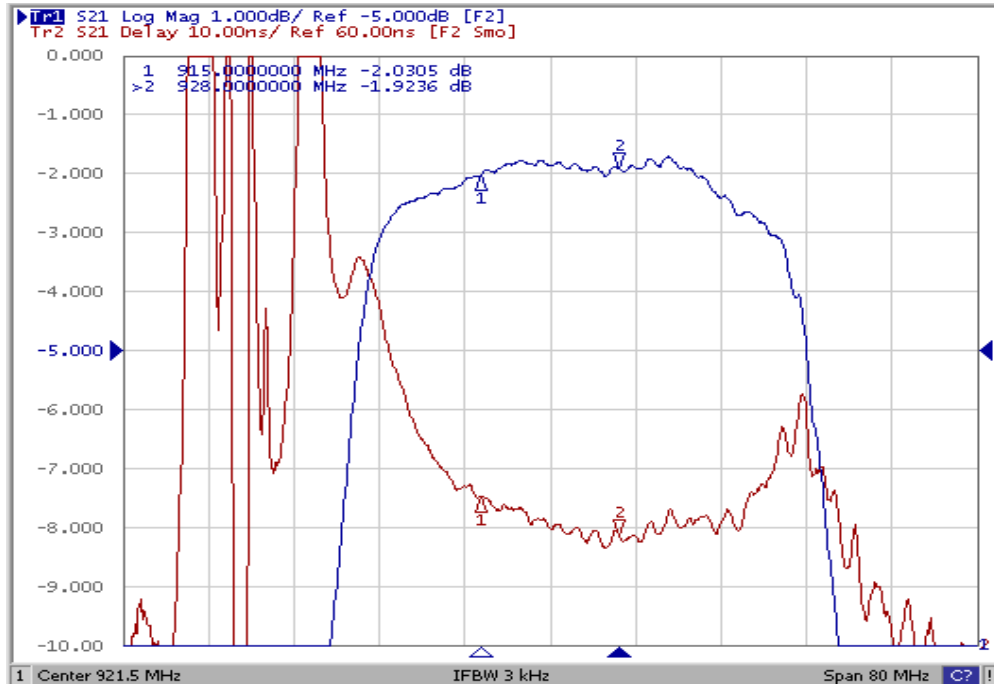
Notes:

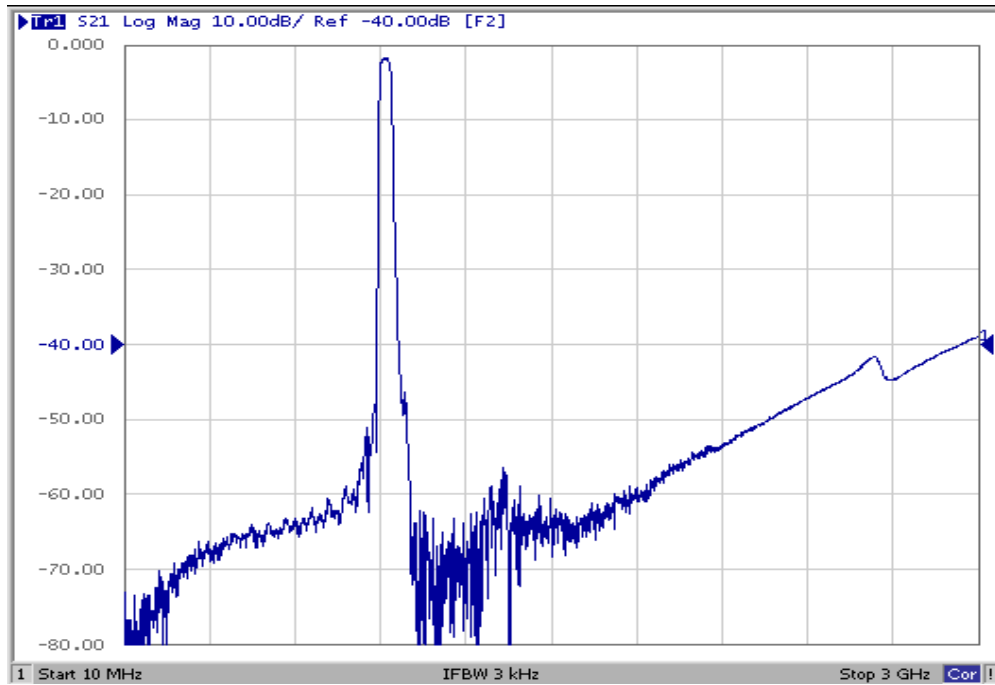
1. US and international patents may apply.
2. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

Matching Circuit

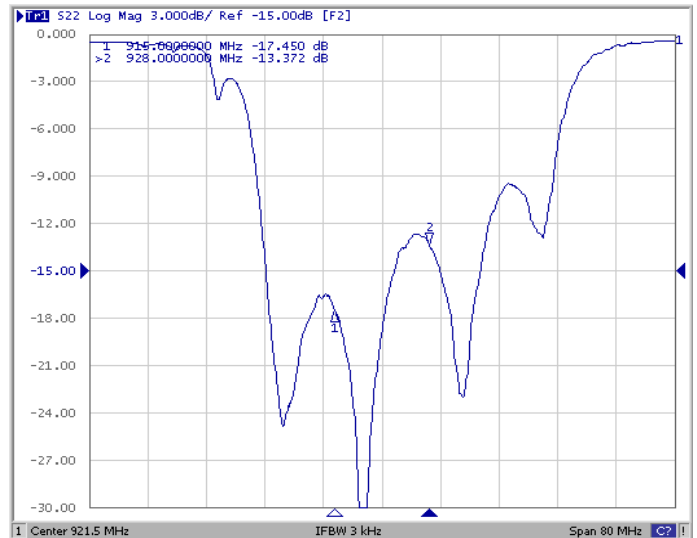
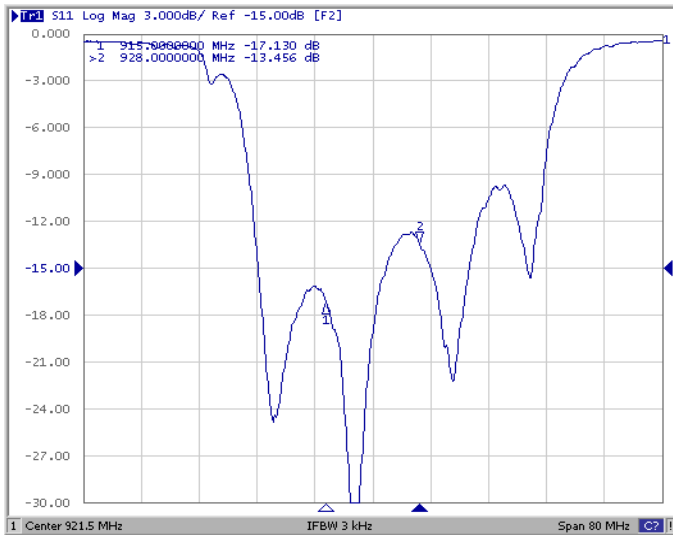


Frequency Response Plots





Return Loss Plots

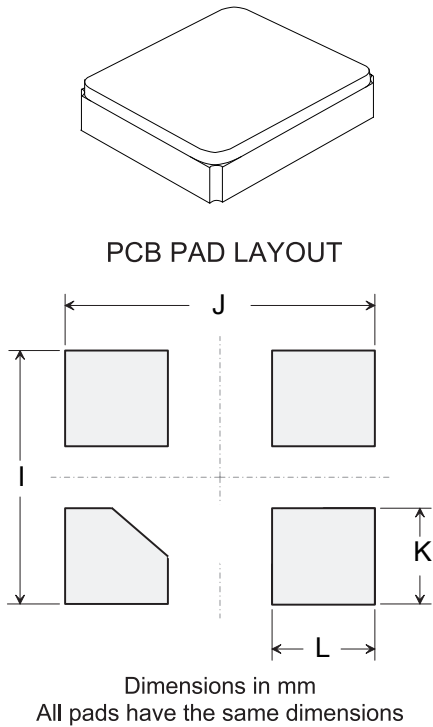


SM2016-4 Case

4-Terminal Ceramic Surface-Mount Case

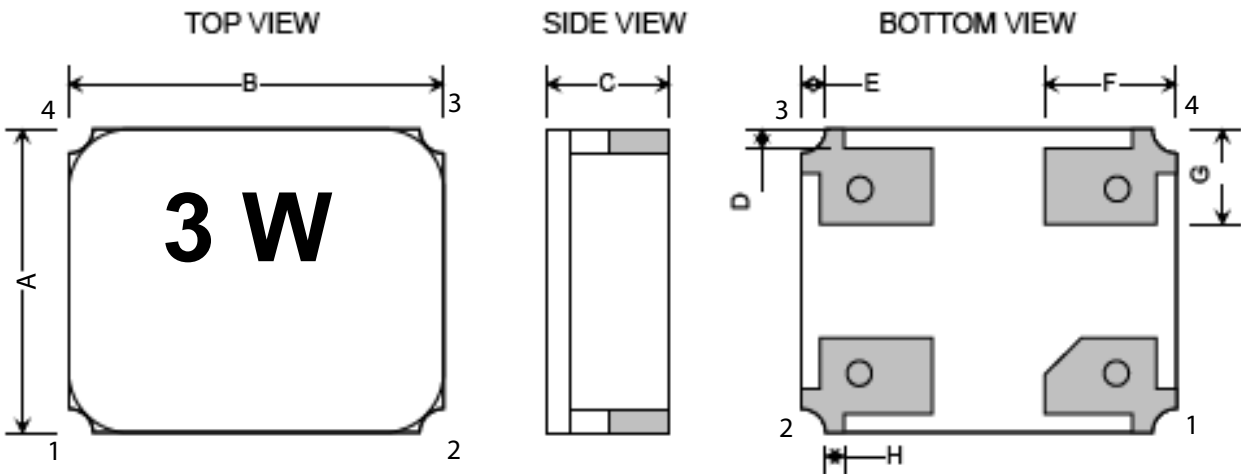
2.0 X 1.6 mm Nominal Footprint

Case Dimensions



Dimension	mm		
	Min	Nom	Max
A	1.57	1.60	1.73
B	1.97	2.00	2.13
C	0.55	0.65	0.75
D	-	0.10	-
E	-	0.10	-
F	-	0.70	-
G	-	0.50	-
H	-	0.10	-
I	-	1.80	-
J	-	2.20	-
K	-	0.60	-
L	-	0.80	-

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_2O_3 Ceramic
Pb Free	



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