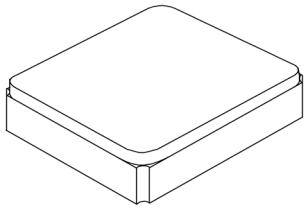
Discontinued

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

SF2259H-1

915 MHz SAW Filter

- ***RF SAW Filter, 915 MHz, 26 MHz Bandwidth***
- ***2.0 x 1.6 x 0.9 mm Surface-mount Case***
- ***Input/Output Impedance 50Ω/50Ω***
- ***Complies with AEC-Q200 Qualification Testing***



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
Operable Temperature Range	-45 to +125	°C
Specification Temperature Range	-0 to +50	°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			915		MHz
Maximum Insertion Loss, 902 - 928 MHz	IL_{MAX}			3.0	4.6	dB
Amplitude Ripple, p-p, 902 - 928 MHz				1.0	2.6	
Return Loss, 902 - 928 MHz			8.5	17		
Group Delay Ripple, 902 - 928 MHz				40	70	ns
Attenuation, Referenced to 0 dB:						dB
10 to 857.5 MHz			40	52		
857.5 to 893 MHz			10	28		
893 to 895 MHz			7	16		
970 to 1005 MHz			30	40		
1005 to 1110 MHz			40	56		
1110 to 3000 MHz			29	39		
Terminating Source impedance	Z_S			50		Ω
Terminating Load impedance	Z_L			50		Ω

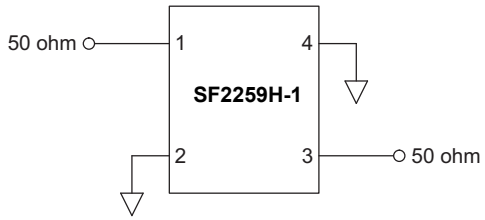
Single Ended Input / Output, Impedance match	No matching network required for operation at 50 ohms
Case Style	SM2016-4
Lid Symbolization	B2

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

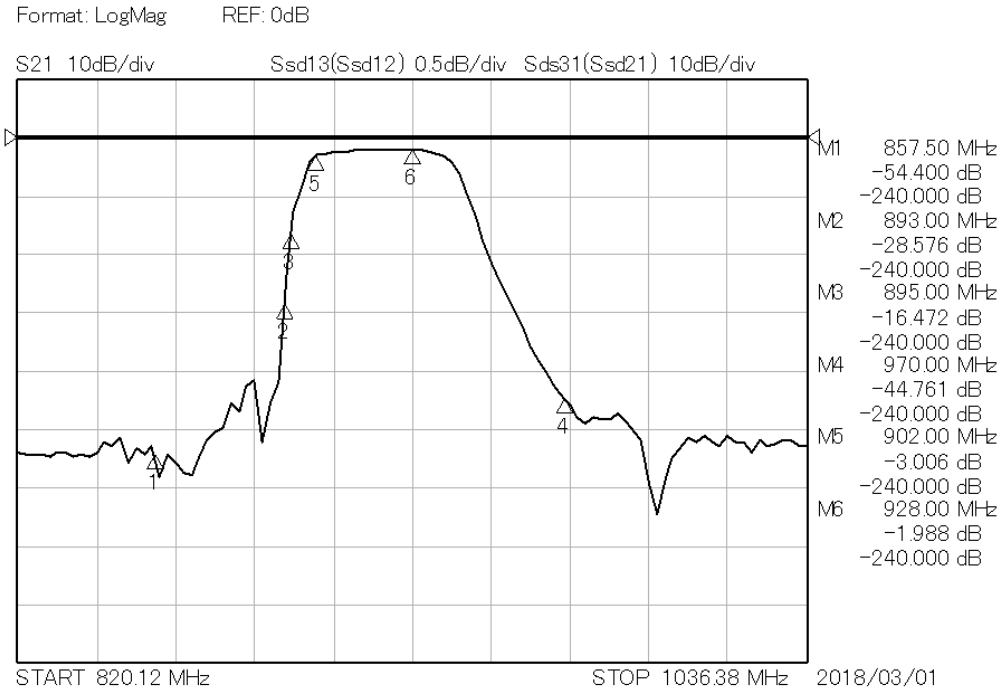
Notes:

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.

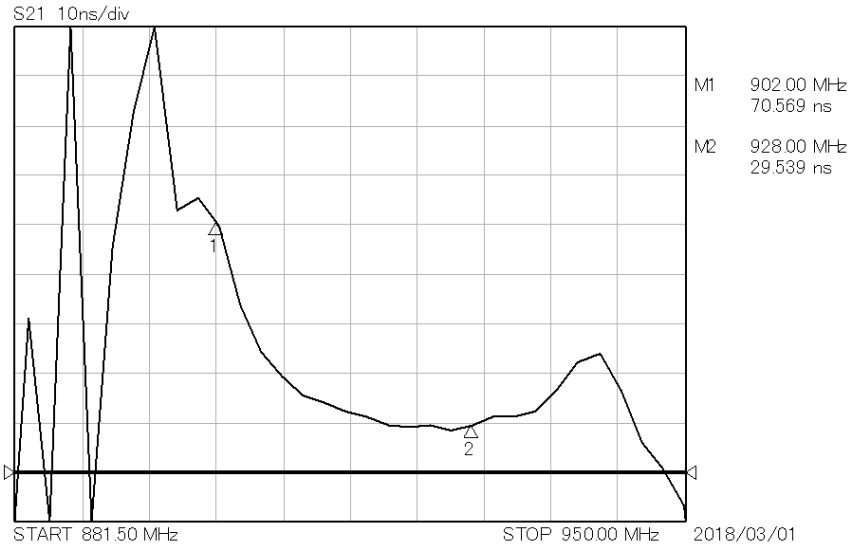
Matching Circuit



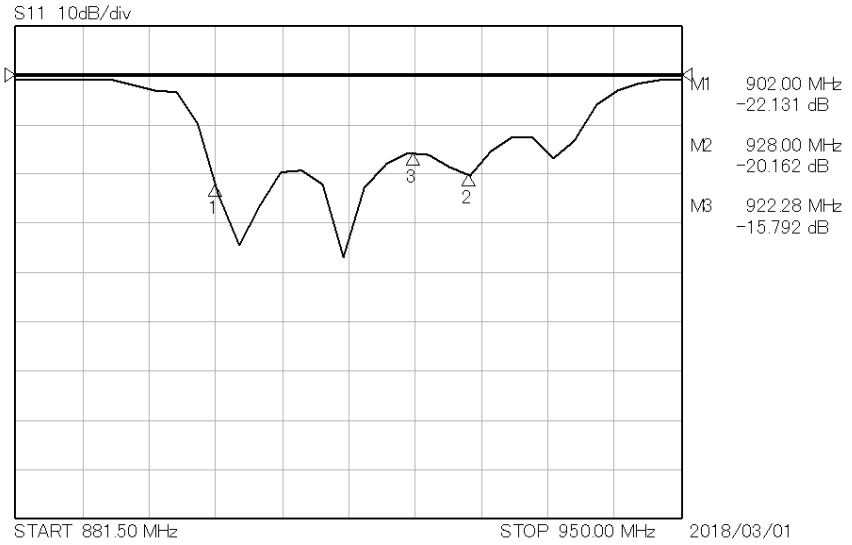
Frequency Response Plots



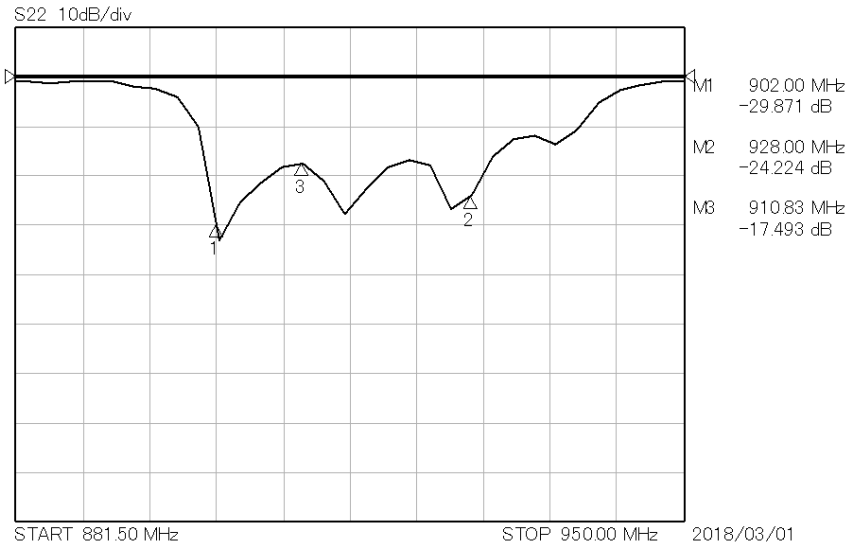
Format: Group Delay REF: 20ns



Format: LogMag REF: 0dB



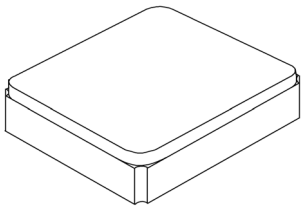
Format: LogMag REF: 0dB



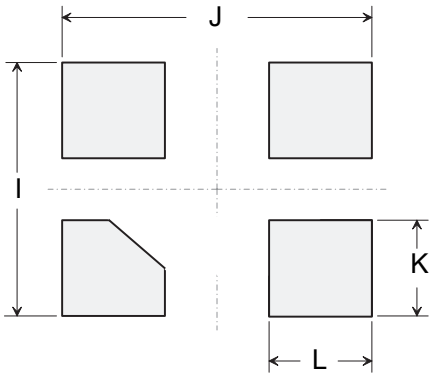
SM2016-4 Case

4-Terminal Ceramic Surface-Mount Case

2.0 X 1.6 mm Nominal Footprint



PCB PAD LAYOUT

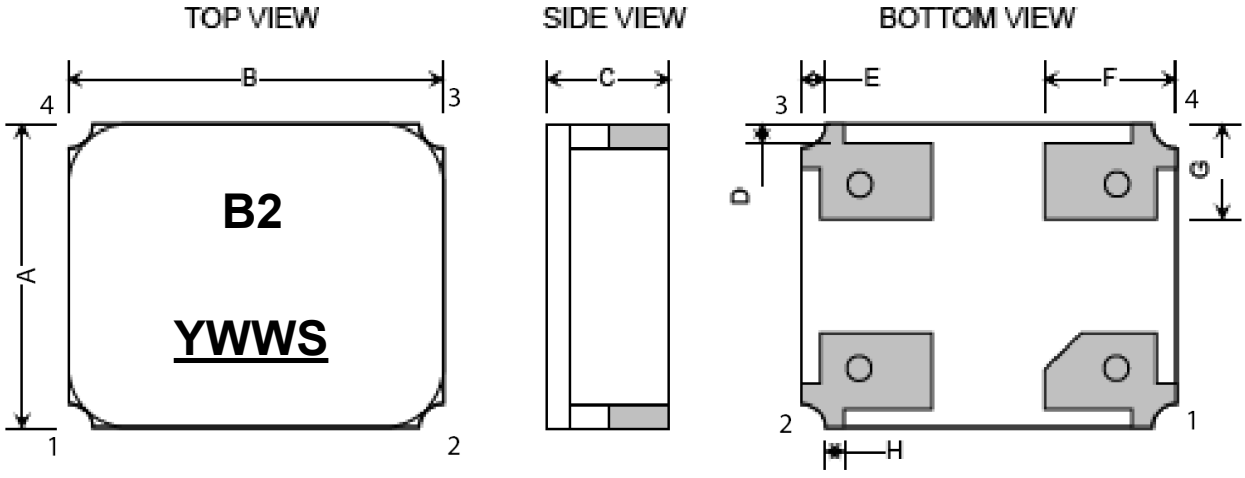


Dimensions in mm
All pads have the same dimensions

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	-

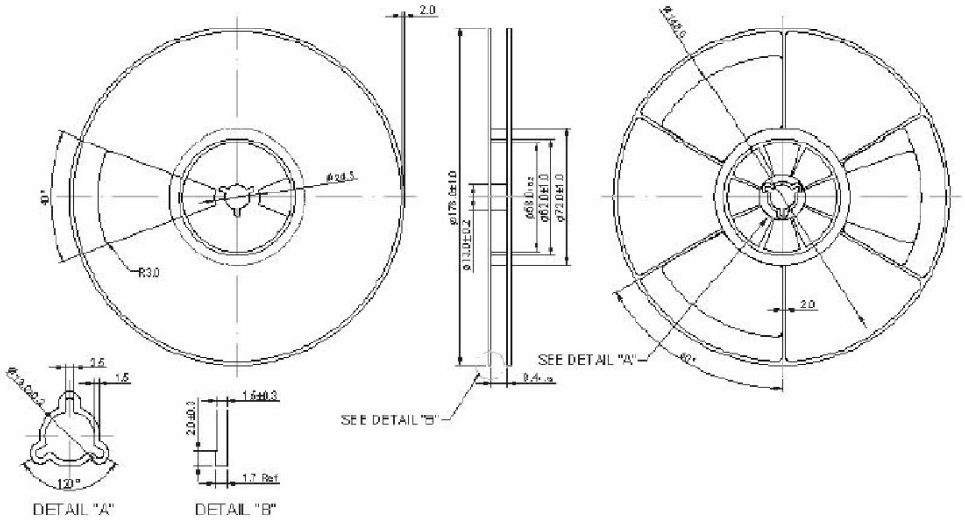
Materials	
Solder Pad Plating	0.3 to 1.0 µm Gold over 1.27 to 8.89 µm Nickel
Lid Plating	2.0 to 3.0 µm Nickel
Body	Al_2O_3 Ceramic
Pb Free	



F. PACKING:

1. REEL DIMENSION

(Reel Count : 7"=2000 typ. ; 13"=10000 typ.)



2. TAPE DIMENSION