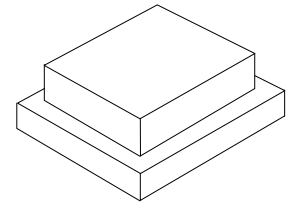



SF1186K-1

**1575.42 MHz
SAW Filter**



SM1411-5

- RF Filter Designed for Front End GPS Applications
- Excellent Rejection
- 1.4 x 1.1 mm Surface-Mount Case
- Complies with Directive 2002/95/EC (RoHS) 

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Maximum DC Voltage Between any Two Terminals	3	VDC
Operating Temperature Range	-30 to +60	°C
Storage Temperature Range	-40 to +85	°C
Maximum Soldering Temperature Profile	265 °C for 10 s	

Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	f_C			1575.42		MHz
2 dB Bandwidth				40		MHz
Insertion Loss, 1570.42 - 1580.42 MHz	IL			1.3	3.0	dB
Amplitude Ripple, 1570.42 - 1580.42 MHz				1.0	2.0	dB _{p-p}
Rejection Referenced to 0 dB:						
1490.0 to 1524.0 MHz			40			dB
1626.6 to 1660.5 MHz			45			
Return Loss, 1570.42 - 1580.42 MHz			8.5			dB
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	SM1411-5					
Lid Symbolization (Y=year, W=week)	ZZ YW					
Standard Quantity on a 7 inch (178 mm) Reel	3000 units					

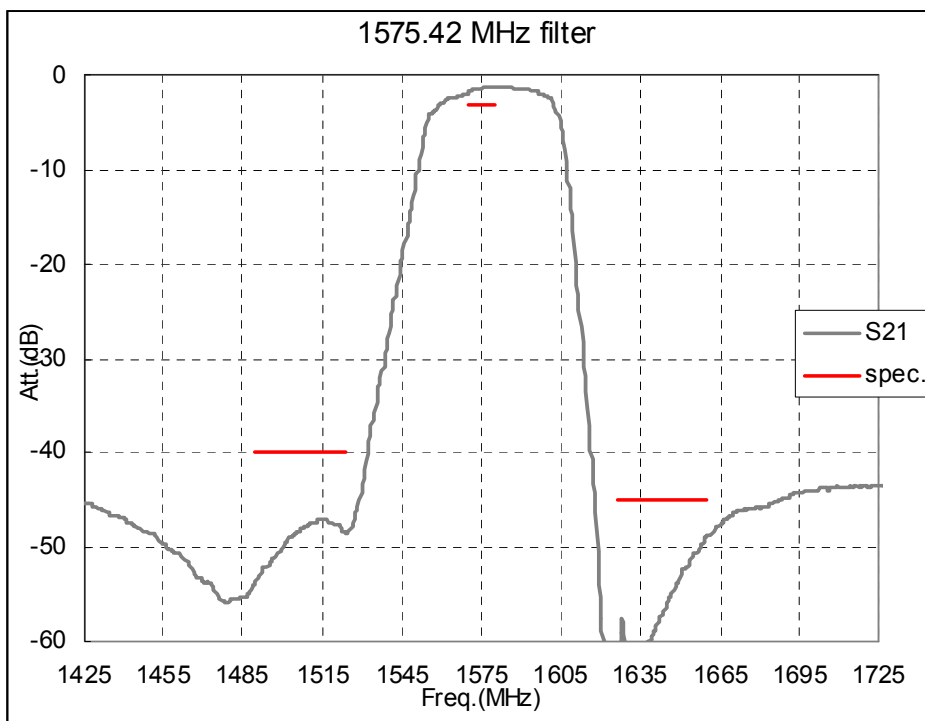
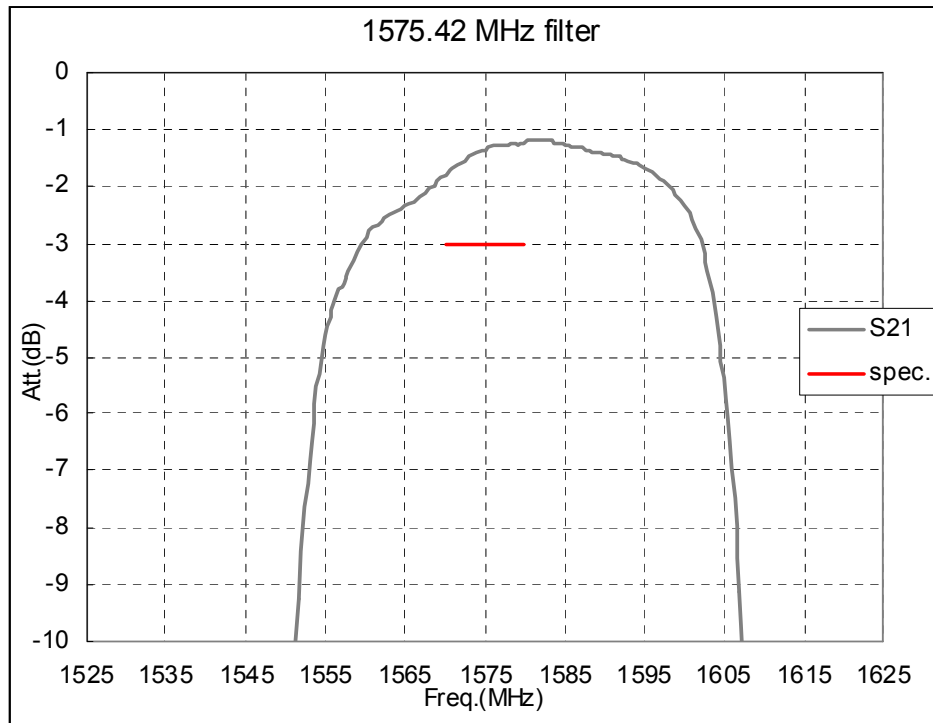


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

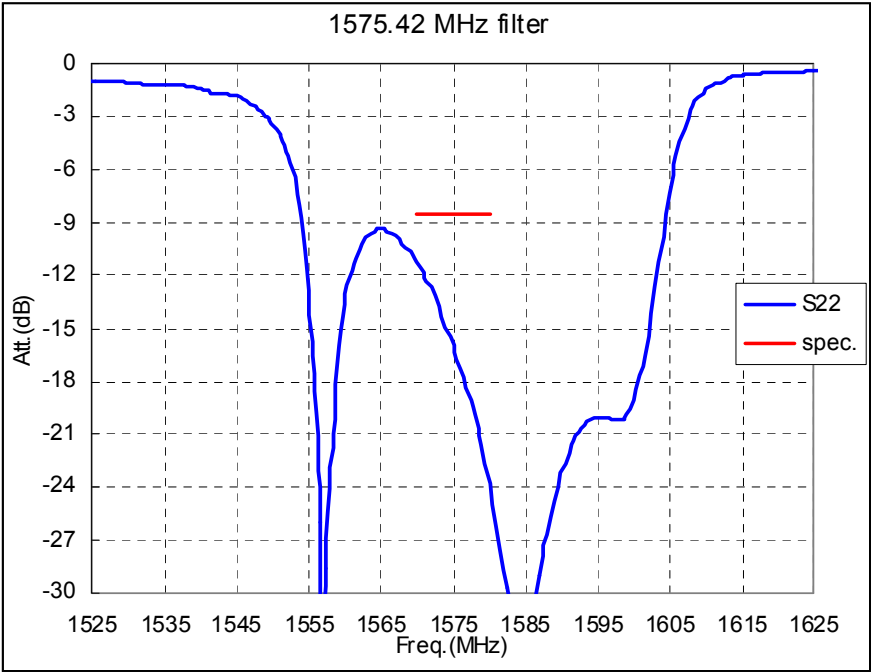
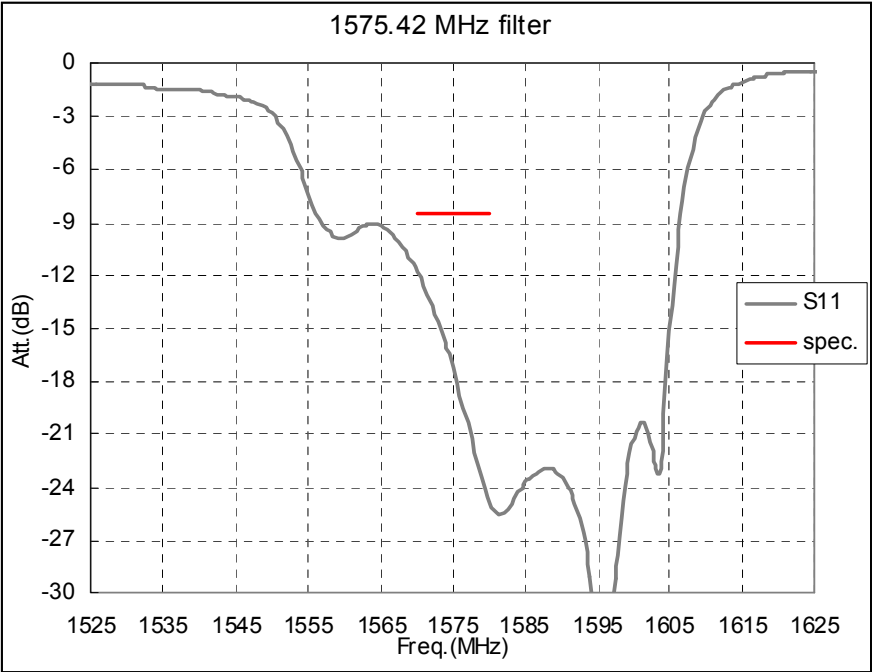
NOTES:

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.p

Frequency Response

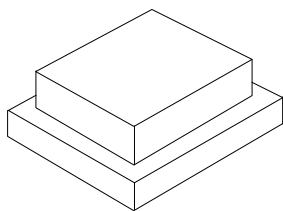


Return Loss



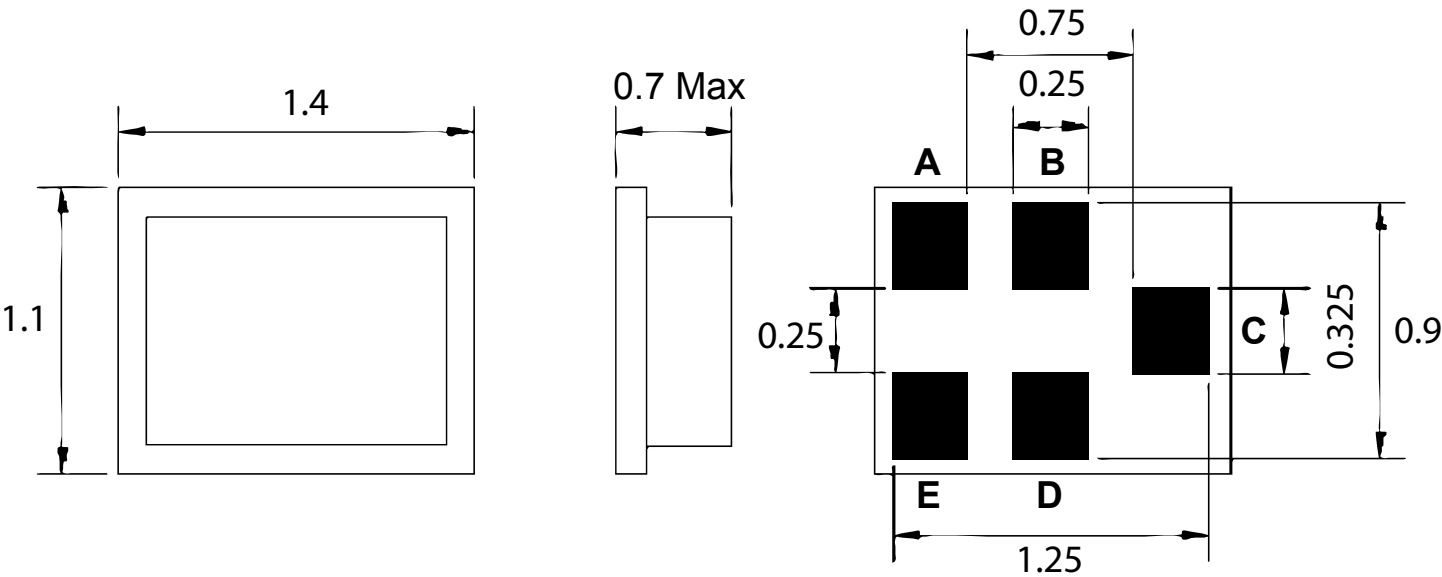
SM1411-5 Case

5-Terminal Surface-Mount Case
1.4 X 1.1 mm Nominal Footprint

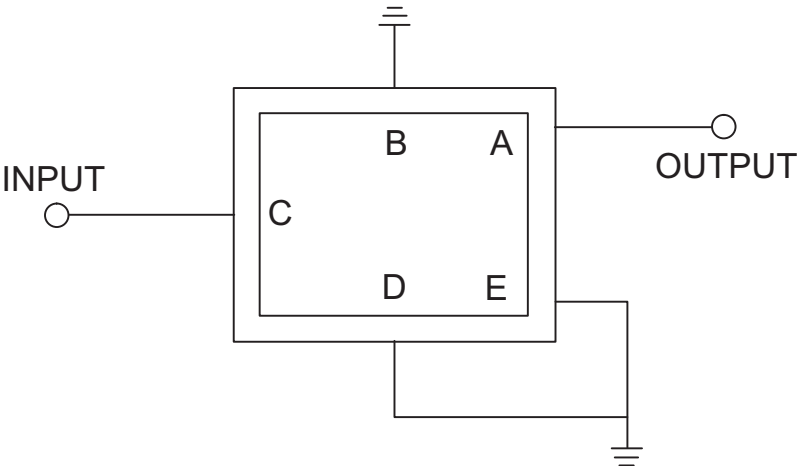


Electrical Connections

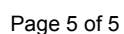
Connection	Terminals
Input	C
Output	A
Ground	B, D, E



Test Configuration



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SF1186K-1 (R) 7/23/14



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