



PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
809-SL62.5M-09A	62.5 MHz IF SAW Filter 10.27 MHz Bandwidth

Specification Contents

- o Mechanical Dimensions
- o Test Circuit
- o Maximum Ratings
- o Electrical Specification
- o Frequency Response
- o Smith Chart
- o SWR

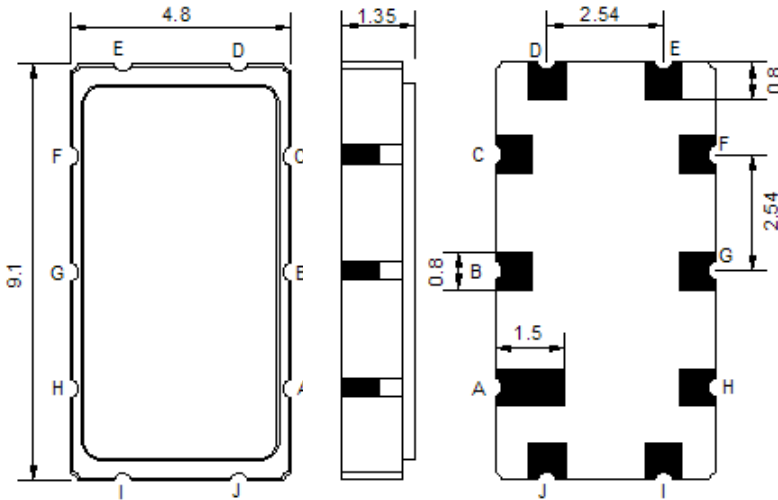
Notes

- o Electrostatic Sensitive Device (ESD) 
- o Avoid excessive ultrasonic exposure
- o Solderability compatible with JEDEC J-STD-020C Pb-free process, 260°C peak reflow temperature
- o This product complies with EU directive 2002/95/EC (RoHS compliance)



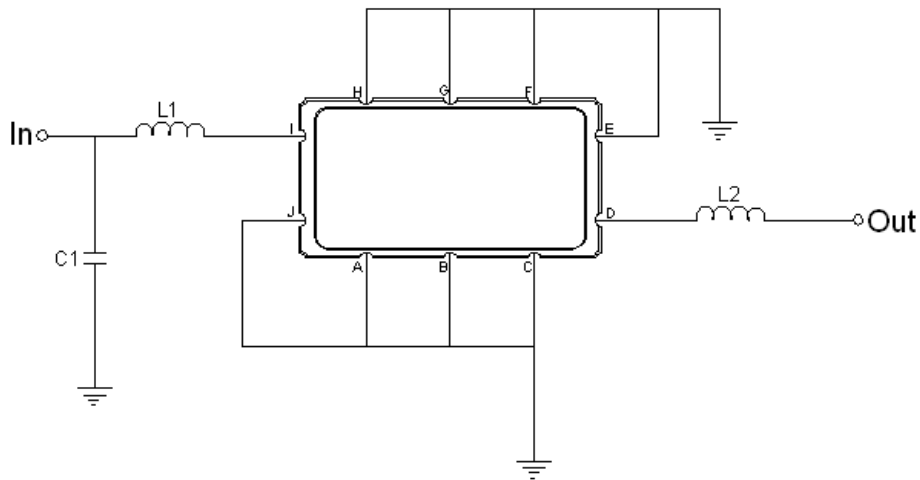


Mechanical Dimensions (mm)



Pin Description	
A, B, C, E, F, G, H, J	Ground
I	Input
D	Output

Test Circuit



Test Fixture & Values	
Input	L1 = 270 nH, C1 = 15 pF
Output	L2 = 120 nH
Source/Load Impedance	50 Ω

**Maximum Ratings**

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-

Notes: With Matching Network (Ref. Testing Environment Circuit as shown above).

Those impedances could be modified with different impedance values and/or structures, if necessary.

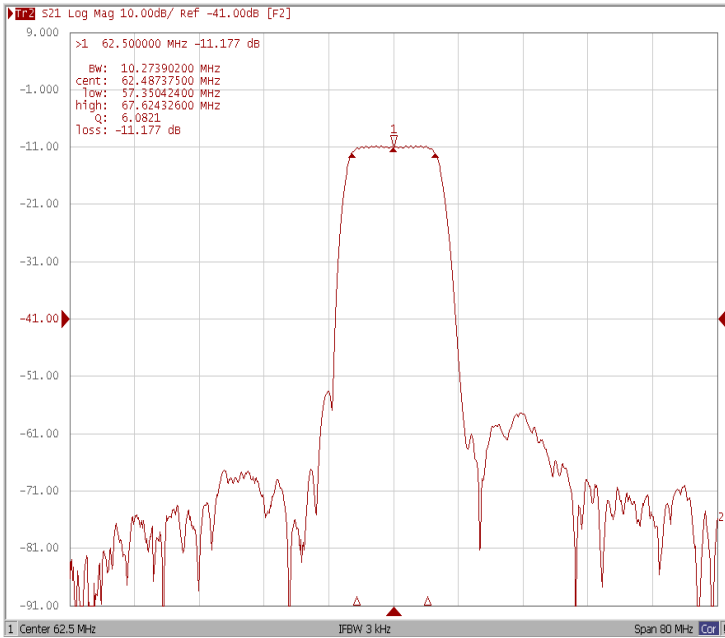
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	62.50	-
Insertion Loss at Fo	dB	-	11.20	13.00
Group Delay Variation at Fo±4.5MHz	nsec	-	60	-
Absolute Delay at Fo	usec	-	0.8	-
Passband Ripple at Fo±4.5MHz	dB	-	0.5	1.0
Bandwidth at -1dB	MHz	9.70	10.27	-
Bandwidth at -3dB	MHz	10.80	11.25	-
Bandwidth at -20dB	MHz	-	14.05	-
Bandwidth at -30dB	MHz	-	14.92	15.50
Bandwidth at -40dB	MHz	-	15.65	-
Relative Attenuation:				
Lower sidelobe	dB	40	45	-
Upper sidelobe	dB	40	45	-

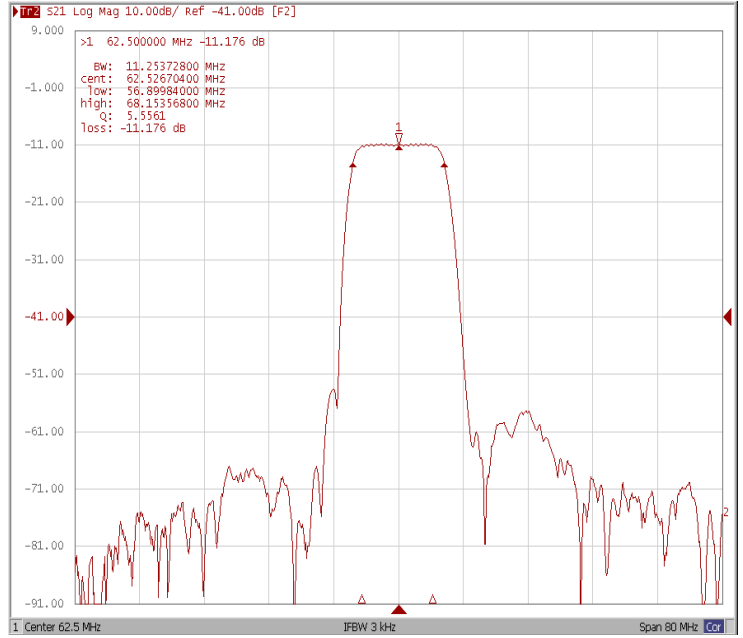


Frequency Response

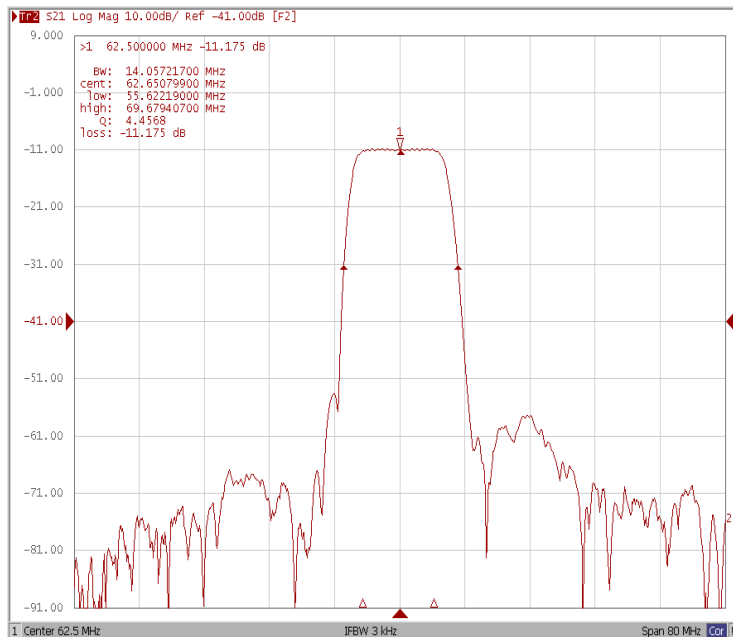
Bandwidth at -1.0 dB



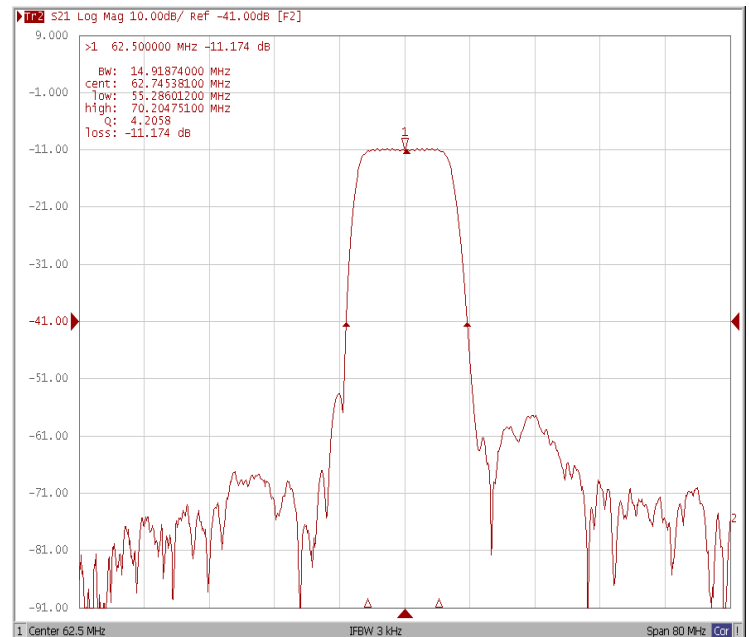
Bandwidth at -3.0 dB



Bandwidth at -20.0 dB



Bandwidth at -30.0 dB





January 2011 Rev A

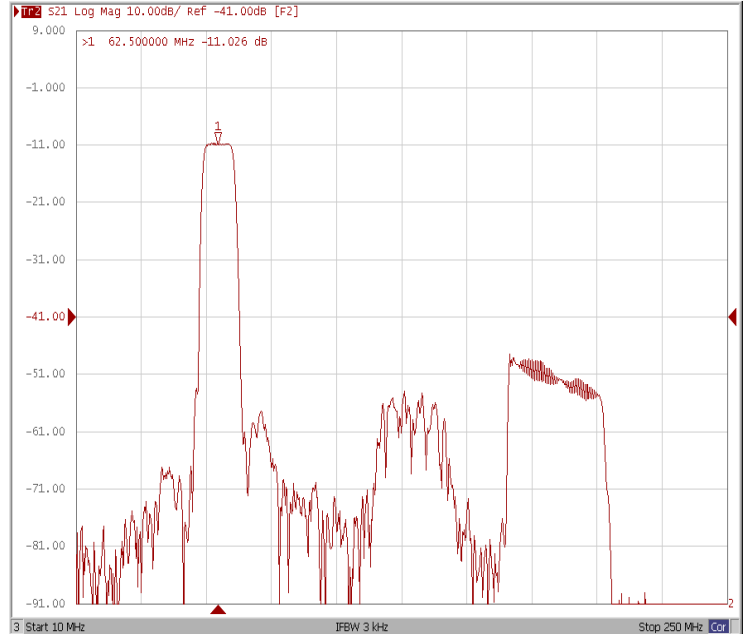
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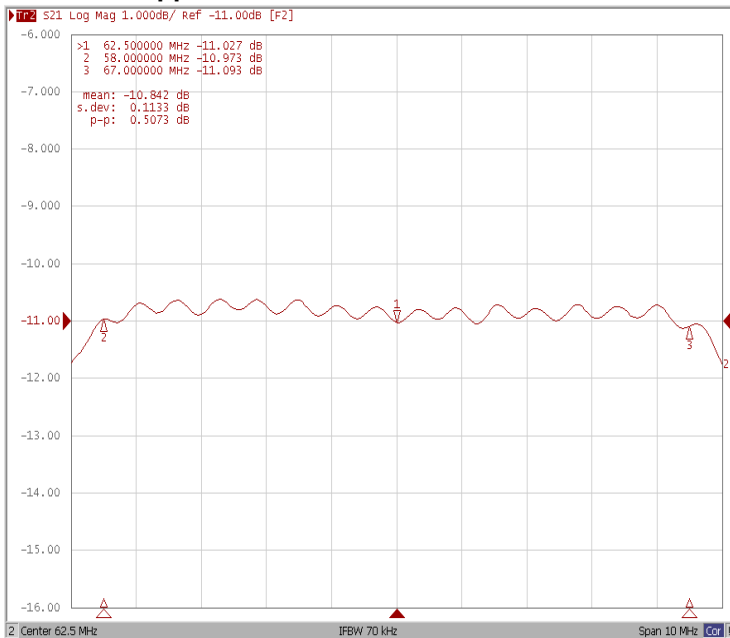
Bandwidth at -40.0 dB



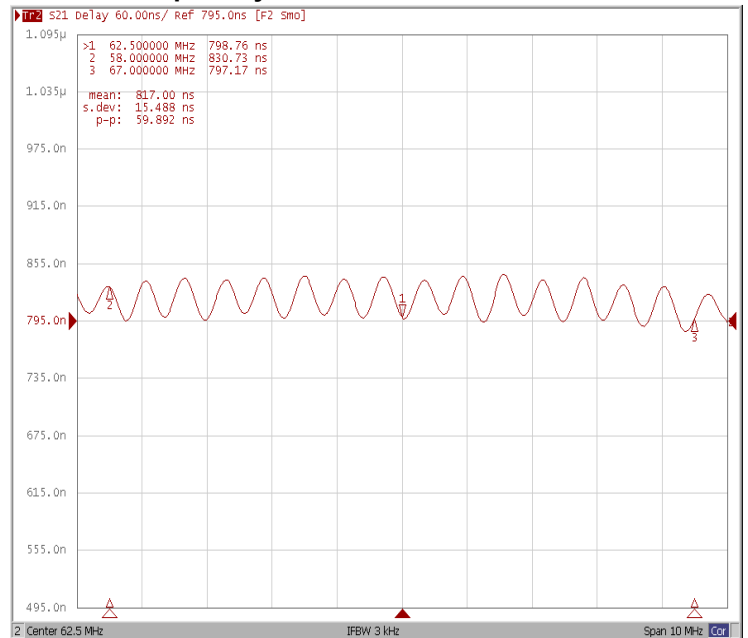
Wide Band



Ripple Variation Fo±4.5MHz



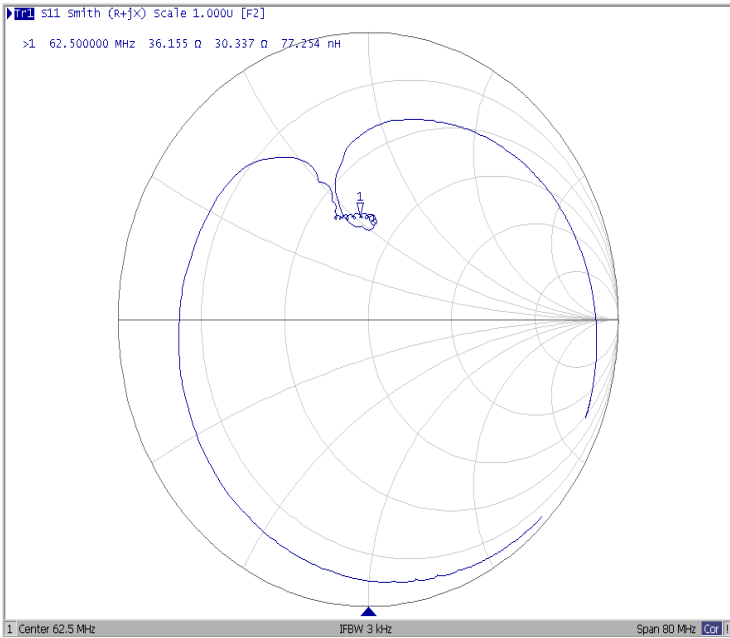
Group Delay Variation Fo±4.5MHz



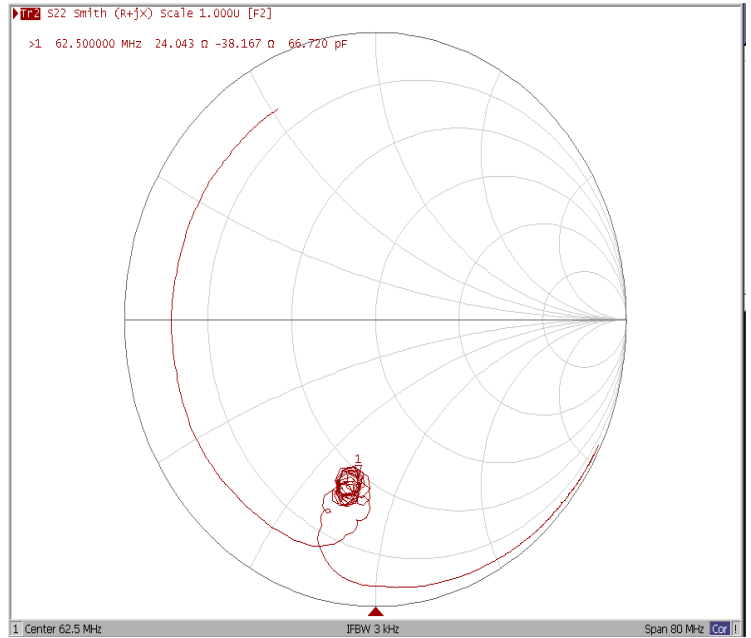


Smith Chart

S11

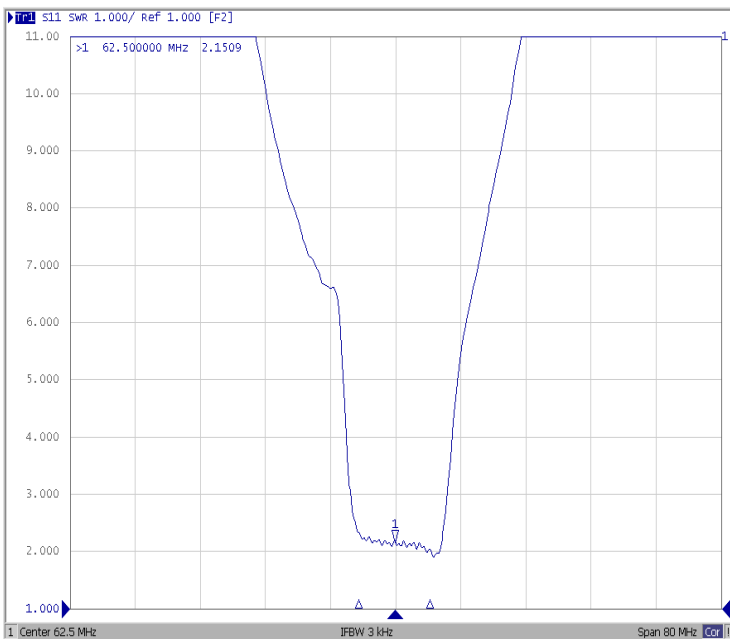


S22



SWR

S11



S22

