



PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
809-SL62.5M-06C	62.5 MHz IF SAW Filter 6.62 MHz Bandwidth

Specification Contents

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

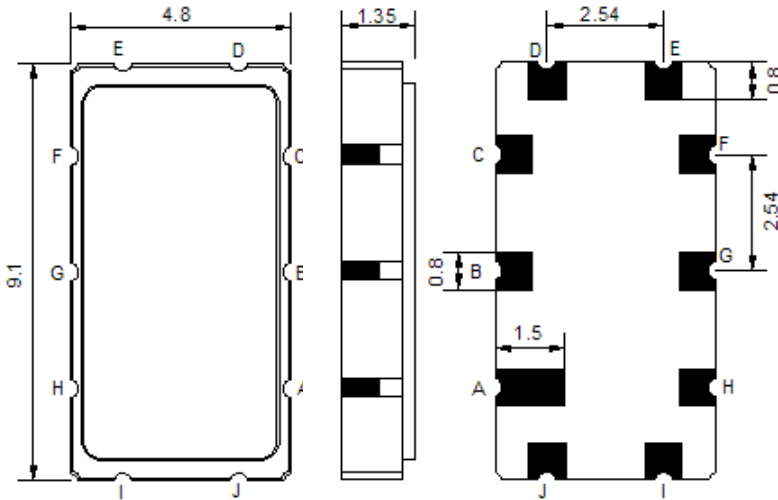
Notes

- 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)



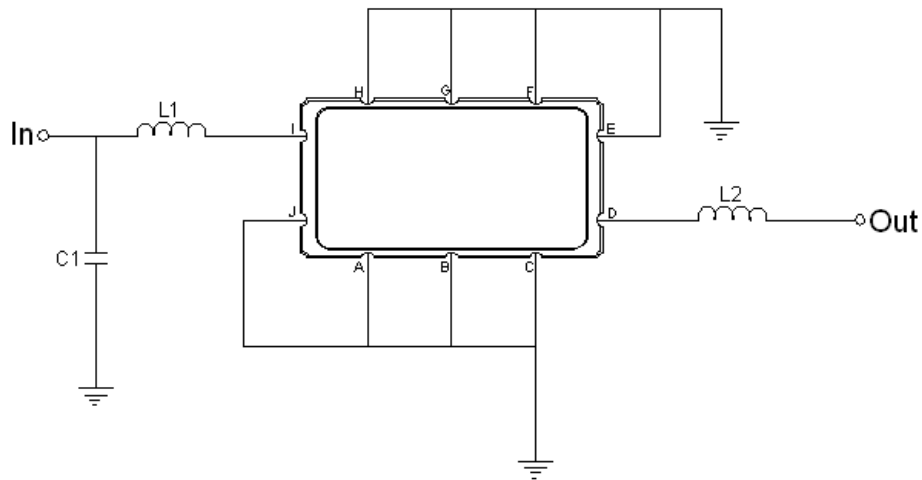


Mechanical Dimensions (mm)



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

Test Circuit



Test Fixture & Values	
Input	L1 = 180 nH, C1 = 91 pF
Output	L2 = 68 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	-	9.6	13.0
Temperature Coefficient	ppm/°C	-	-86	-
Group Delay Variation at Fo±2.4MHz	nsec	-	69	100
Absolute Delay at Fo	usec	-	0.95	-
Passband Ripple at Fo±2.4MHz	dB	-	0.37	0.8
Bandwidth at -1dB	MHz	6.0	6.62	-
Bandwidth at -3dB	MHz	-	7.62	-
Bandwidth at -30dB	MHz	-	10.40	10.80
Ultimate Rejection	dB	-	42	-
VSWR				
Input	-	-	3.5	-
Output	-	-	5.5	-



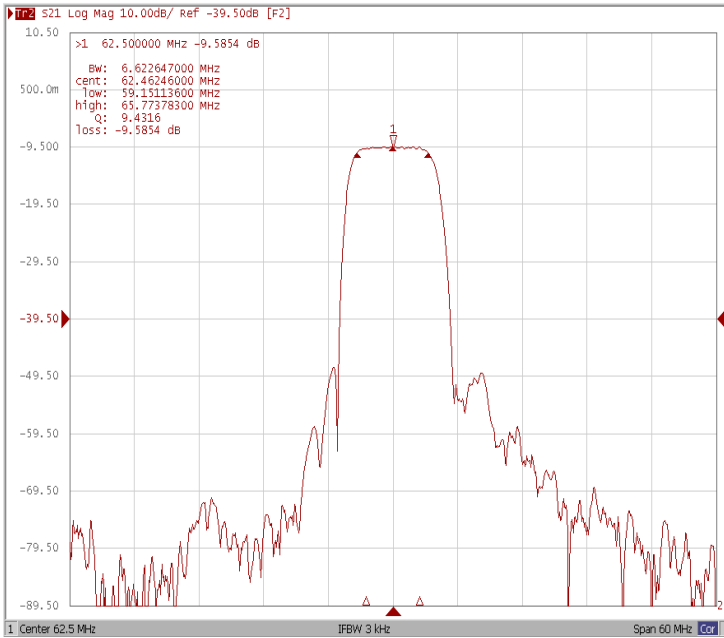
January 2011 Rev A

Oscilent Part Number
809-SL62.5M-06C

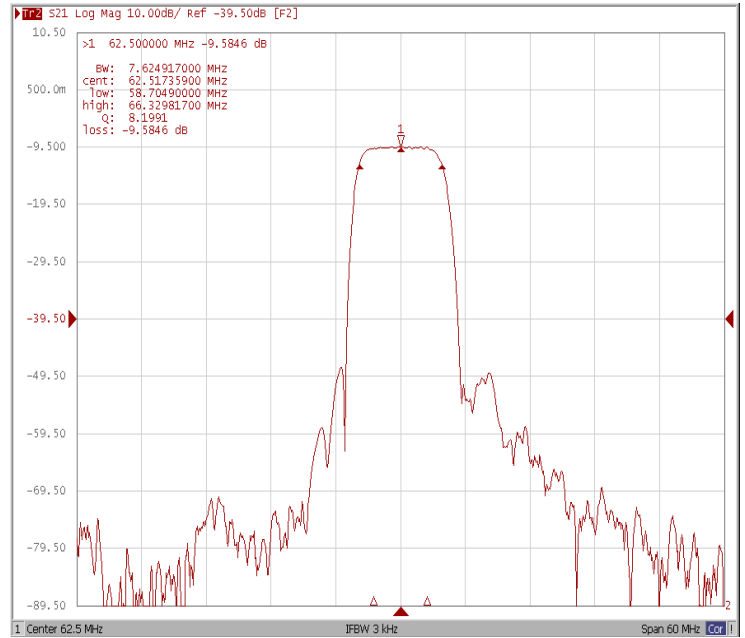
62.5 MHz IF SAW Filter 6.62 MHz Bandwidth

Frequency Response

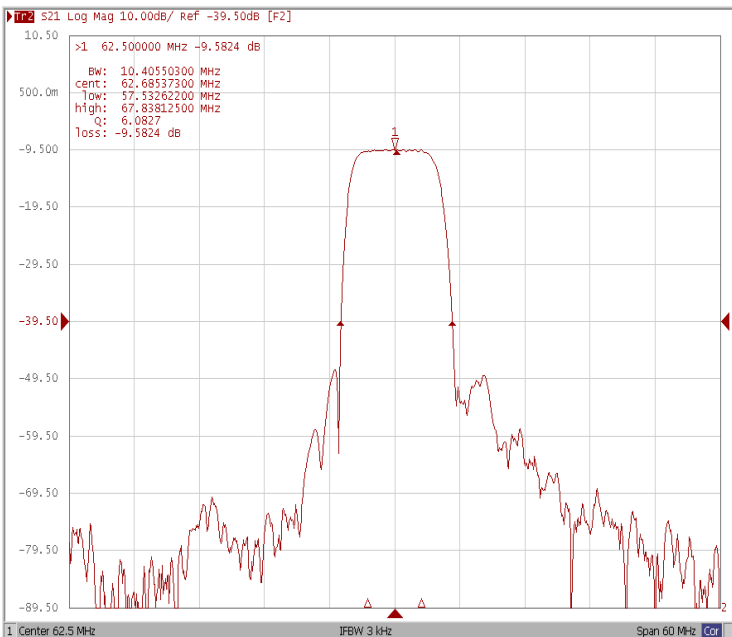
Bandwidth at -1.0 dB



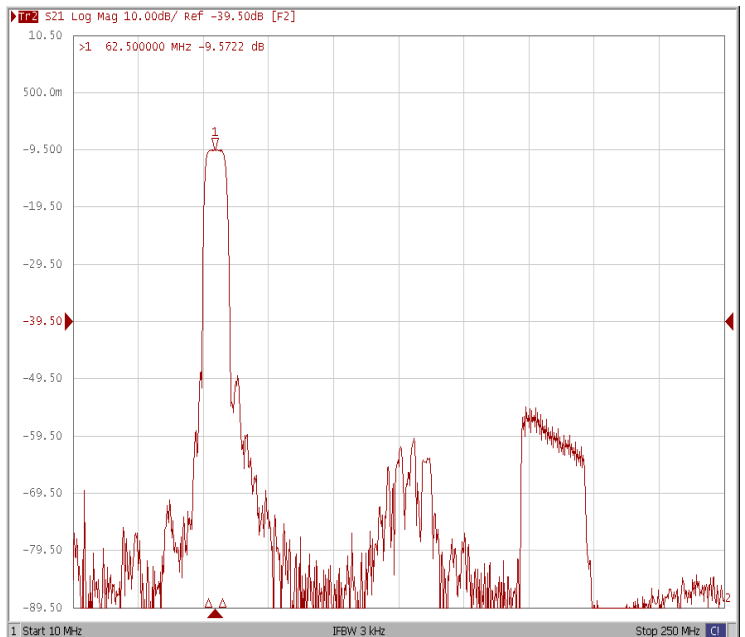
Bandwidth at -3.0 dB



Bandwidth at -30.0 dB

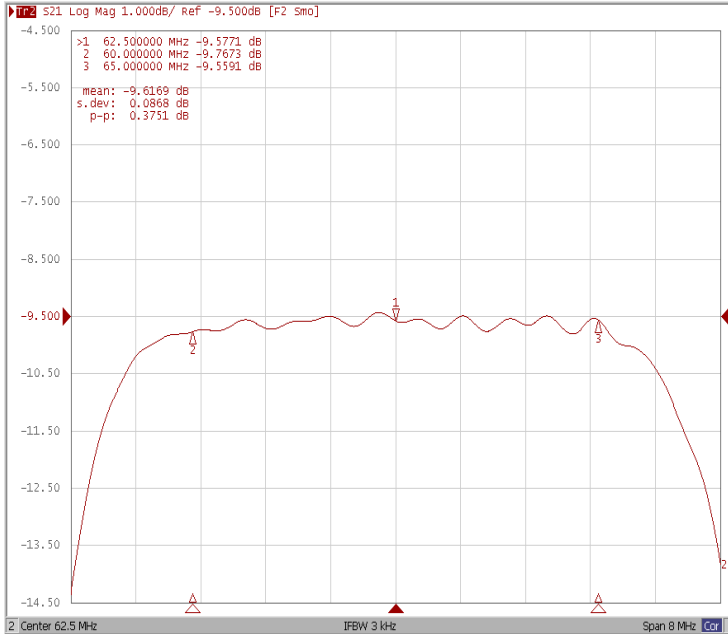


WIDE

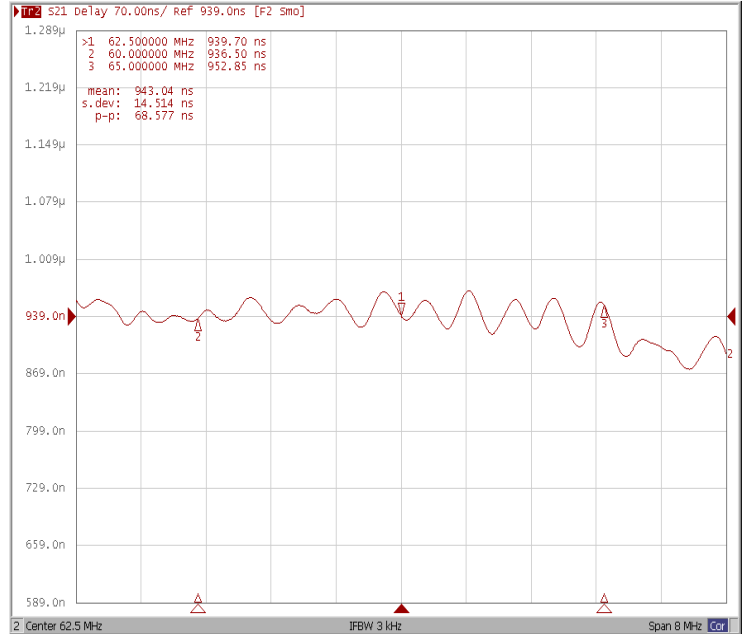




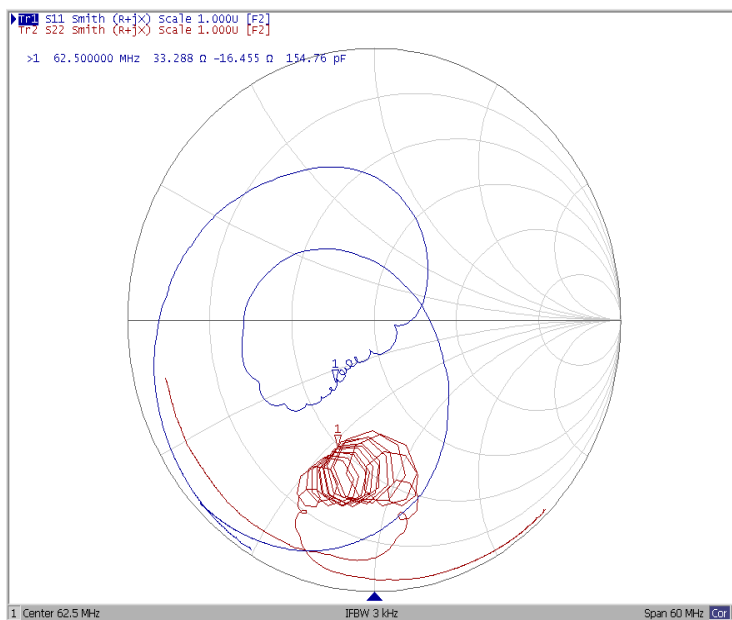
Ripple Variation Fo±2.4MHz



Group Delay Variation Fo±2.4MHz



Smith Chart





SWR

