



PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
809-SL62.9M-20E	62.5 MHz IF SAW Filter 21.2 MHz Bandwidth

Specification Contents

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

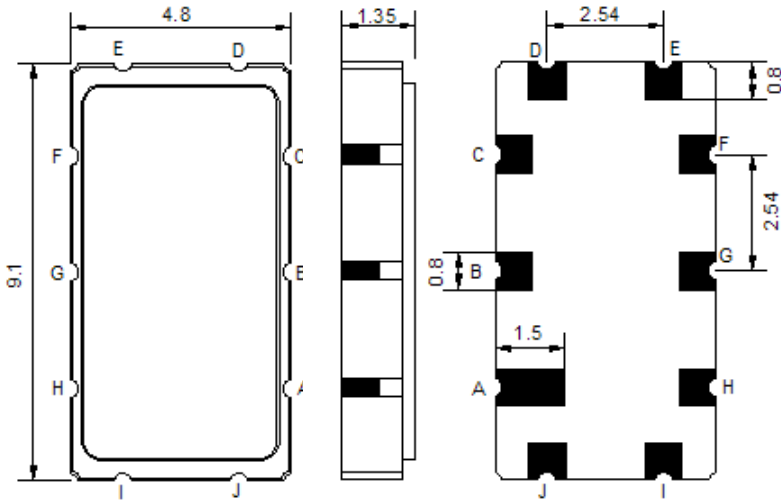
Notes

- 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)



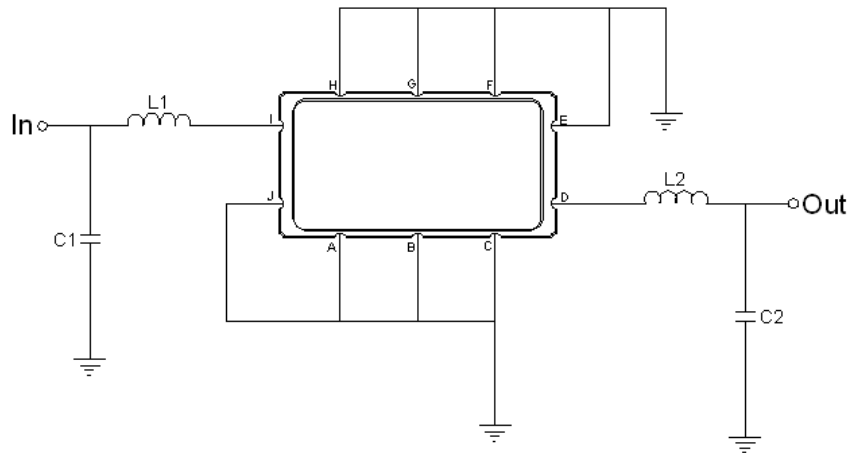


Mechanical Dimensions (mm)



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 = 22 pF
Output	L2 = 180 nH, C2 = 22 pF
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.

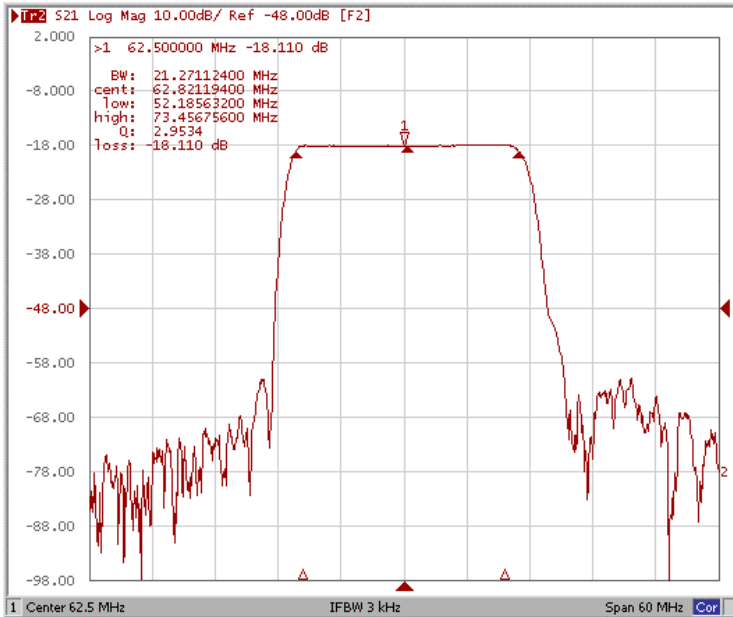
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	62.9	-
Insertion Loss at Fo	dB	-	18.0	20.5
Group Delay Variation at 62.5MHz ±9.75MHz	nsec	-	20	40
Absolute Delay at Fo	usec	-	0.91	-
Passband Ripple at 62.5MHz ±9.75MHz	dB	-	0.30	1.0
Bandwidth at -1dB	MHz	20.7	21.2	-
Bandwidth at -3dB	MHz	21.8	22.2	-
Bandwidth at -20dB	MHz	-	24.9	-
Bandwidth at -30dB	MHz	-	25.6	26.5
Bandwidth at -40dB	MHz	-	26.9	28.0
Relative Attenuation:				
62.5MHz -12.5MHz	dB	35	40	-
Lower sidelobe	dB	40	45	-
Upper sidelobe	dB	40	45	-

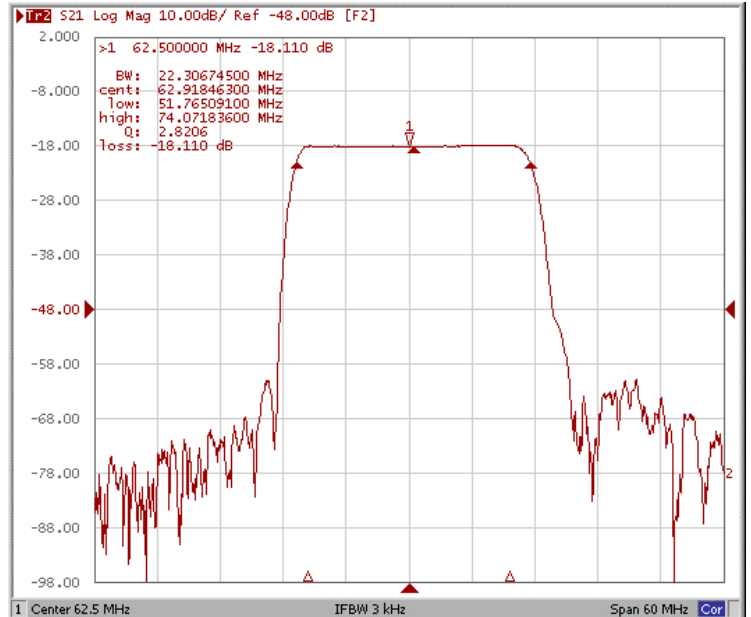


Frequency Response

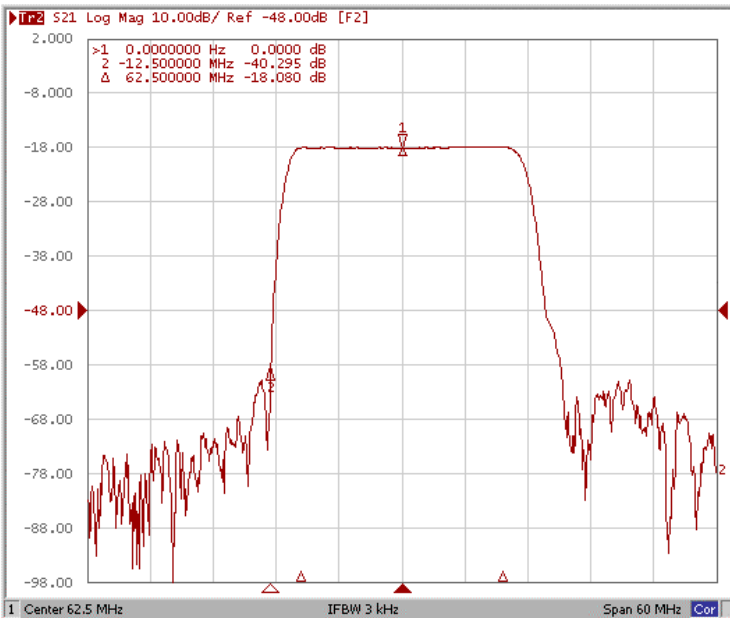
Bandwidth at -1.0 dB



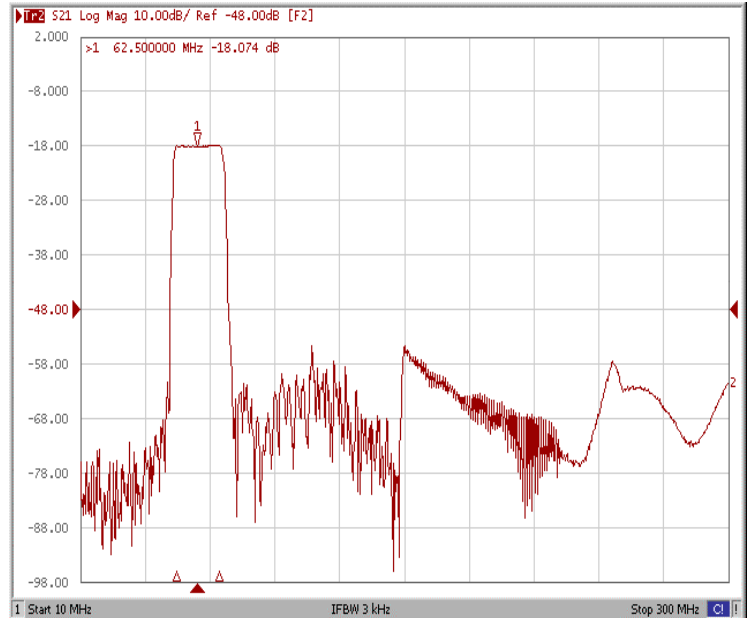
Bandwidth at -3.0 dB



Attenuation 62.5MHz -12.5MHz

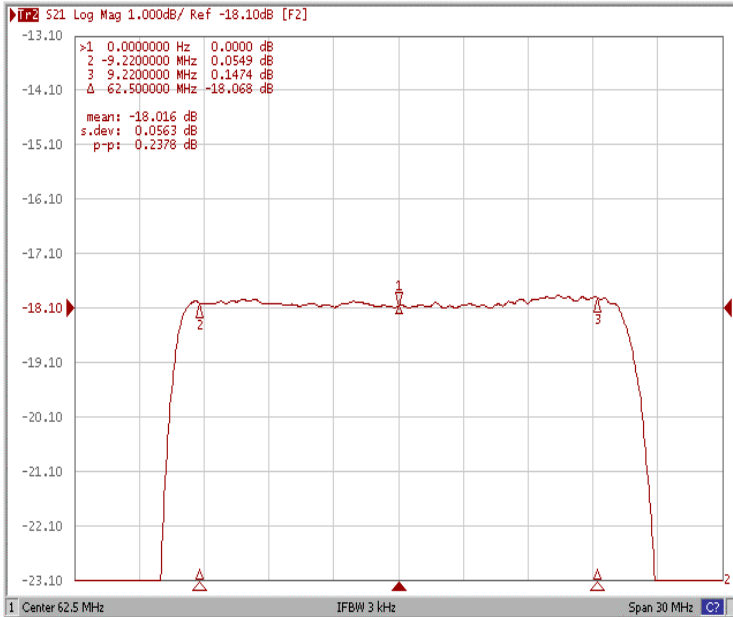


Wide-Band

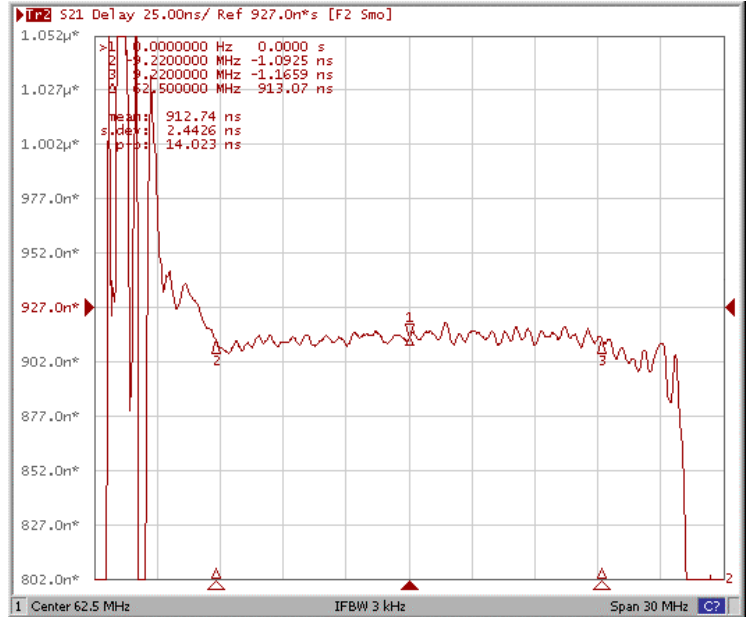




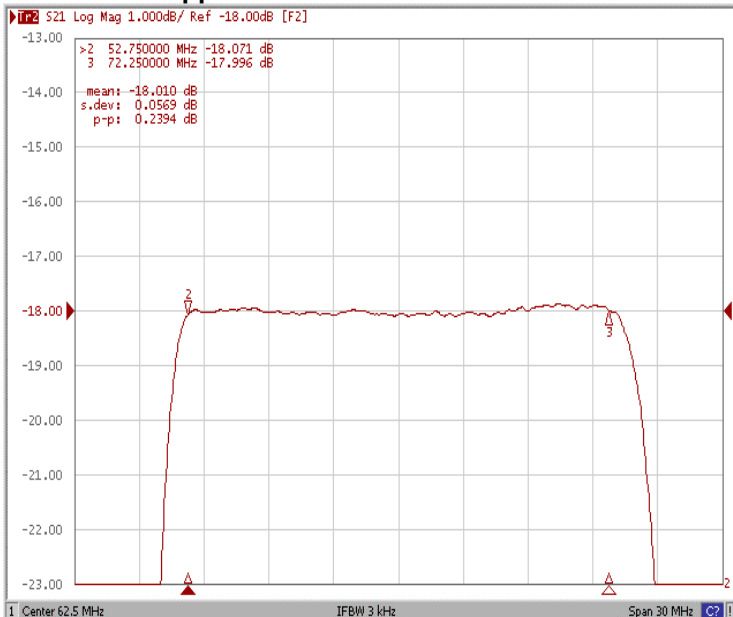
Ripple Variation 62.5MHz \pm 9.22MHz



Group Delay Variation 62.5MHz \pm 9.22MHz



Ripple Variation 62.5MHz \pm 9.75MHz



Group Delay Variation 62.5MHz \pm 9.75MHz

