



Oscilent Corporation

PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL62.5M-04A	62.50MHz IF SAW Filter 4.40MHz Bandwidth

Specification Contents

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

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)





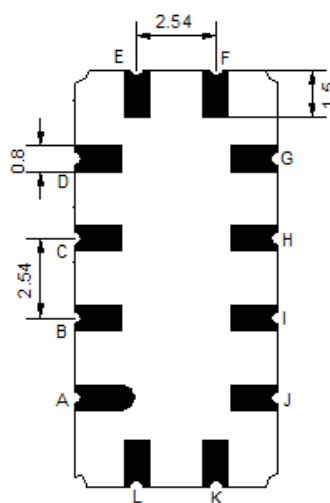
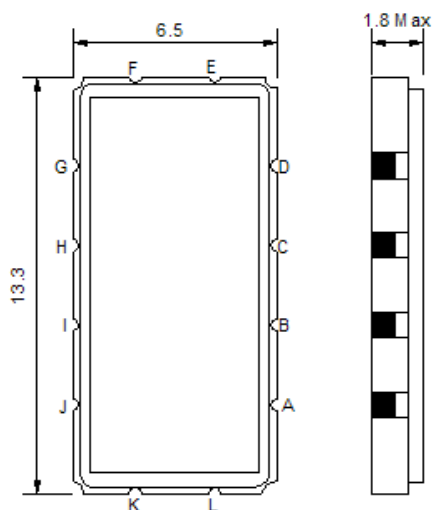
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January 2011 Rev A

62.50MHz IF SAW Filter 4.40MHz Bandwidth

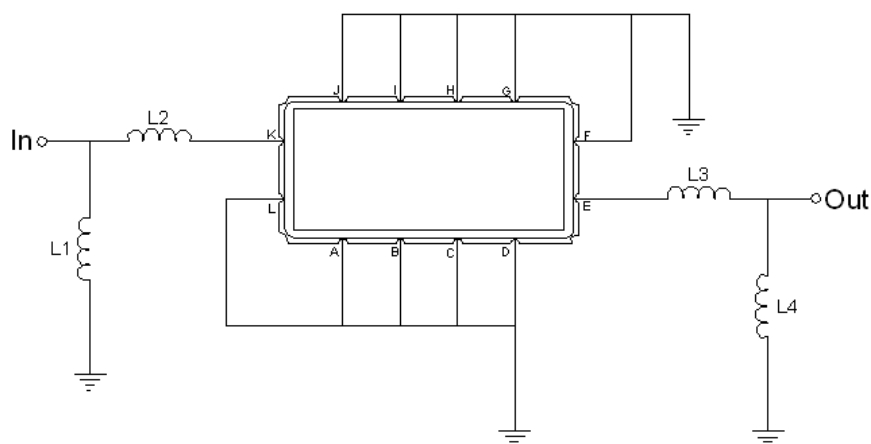
Mechanical Dimensions (mm)



Pin Description

A, B, C, D, F, G, H, I, J, L	Ground
K	Input
E	Output

Test Circuit



Test Fixture & Values

Input	L1 = 56 nH, L2 = 10 nH
Output	L3 = 10 nH, L4 = 56 nH
Source/Load Impedance	50 Ω

**Maximum Ratings**

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-	25	-
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	-	14.60	17.00
Group Delay Variation (Fo±1.92MHz)	nsec	-	40	70
Absolute Delay Time at Fo	usec	-	1.70	-
Temperature Coefficient	ppm/°C	-	-20	-
Amplitude Ripple (Fo±1.92MHz)	dB	-	0.35	0.80
Bandwidth at -1dB	MHz	4.20	4.40	-
Bandwidth at -3dB	MHz	4.60	4.85	-
Bandwidth at -30dB	MHz	-	6.30	6.60
Relative Attenuation				
Lower Sidelobe	dB	40	48	-
Upper Sidelobe	dB	40	45	-



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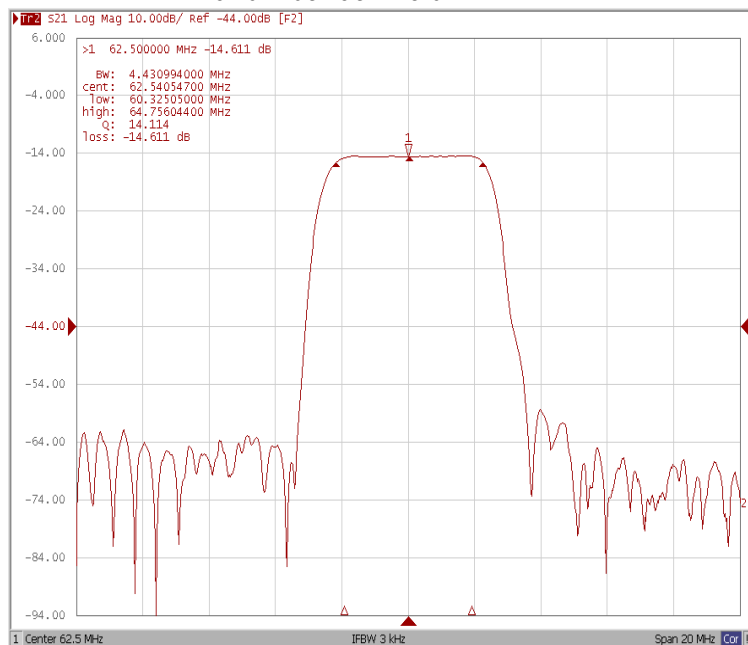
813-SL62.5M-04A

January 2011 Rev A

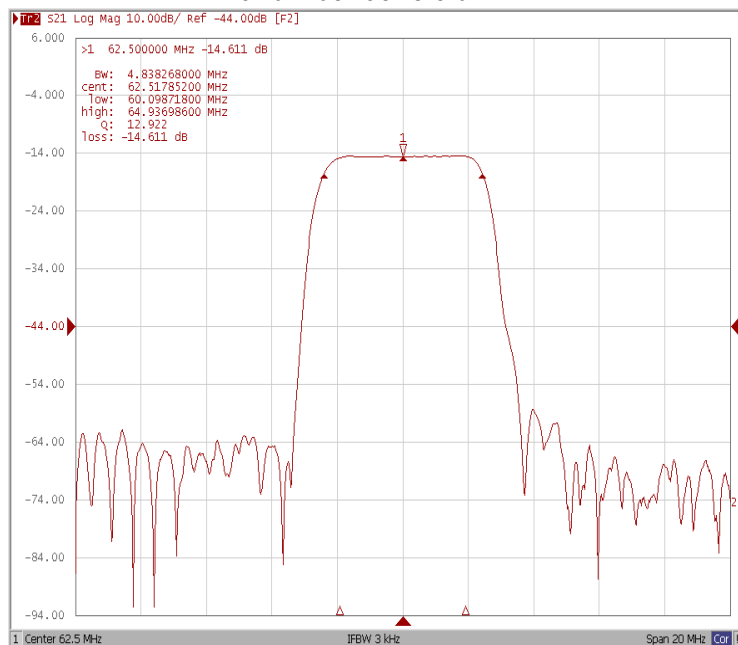
62.50MHz IF SAW Filter 4.40MHz Bandwidth

Frequency Response

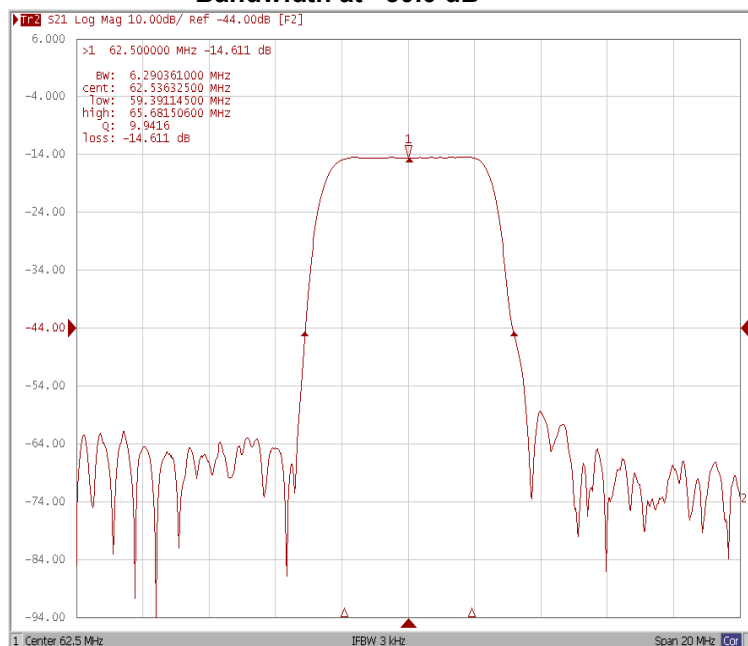
Bandwidth at -1.0 dB



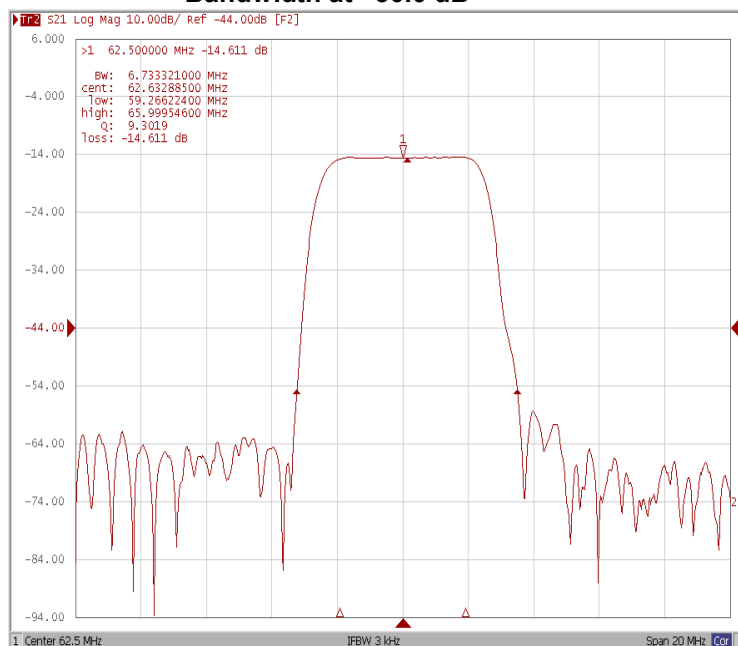
Bandwidth at -3.0 dB



Bandwidth at -30.0 dB



Bandwidth at -30.0 dB





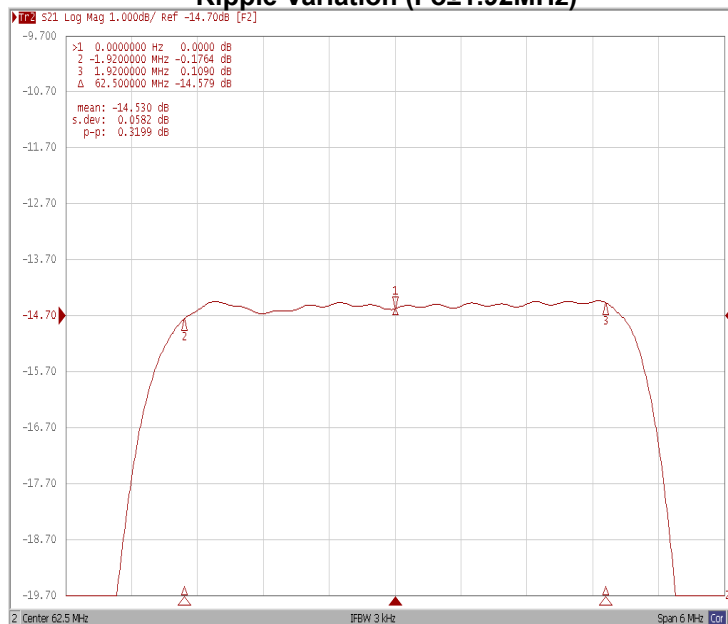
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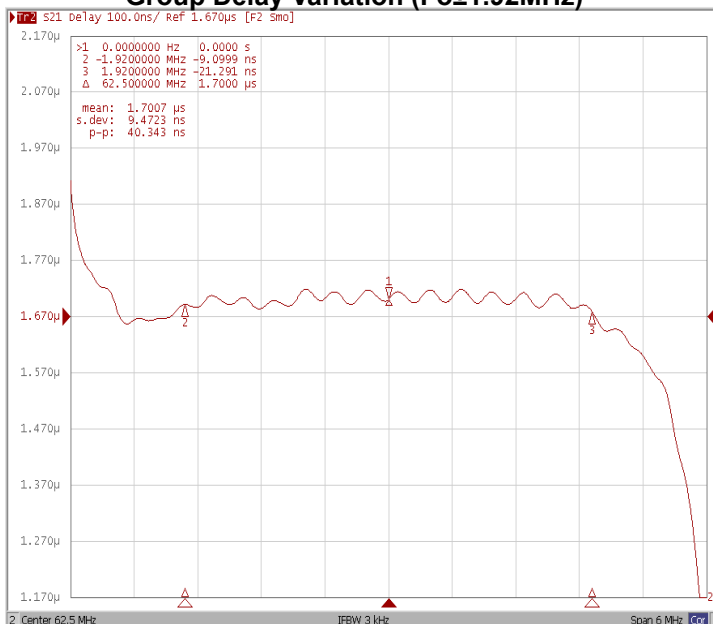
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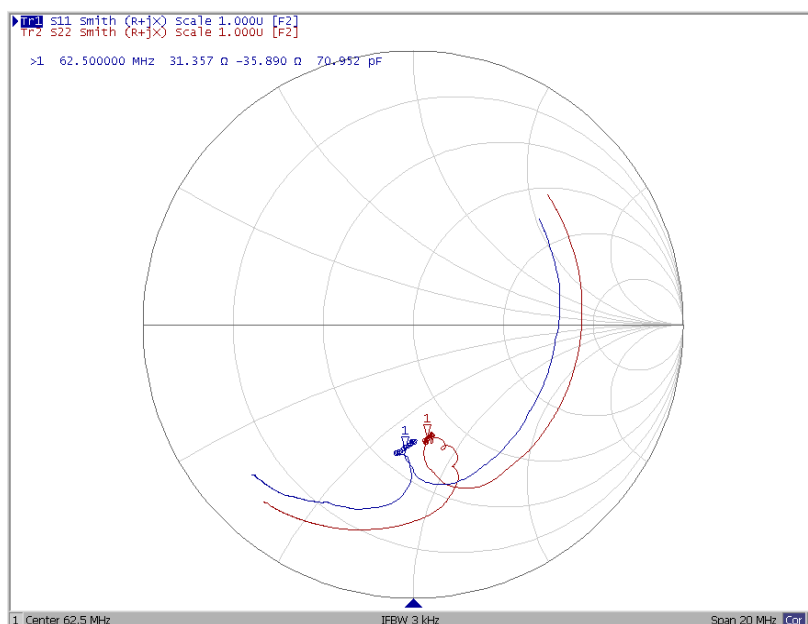
Ripple Variation (Fo±1.92MHz)



Group Delay Variation (Fo±1.92MHz)



Smith Chart





VSWR

