



Oscilent Corporation

PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL128.0625M-02A	28.0625 MHz IF SAW Filter 1.875 MHz 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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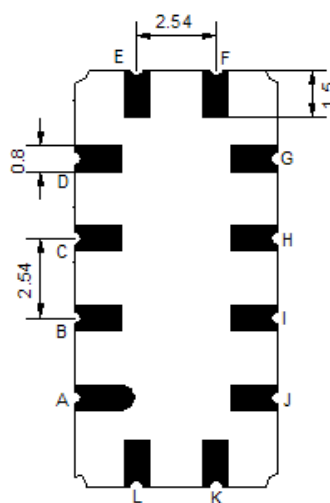
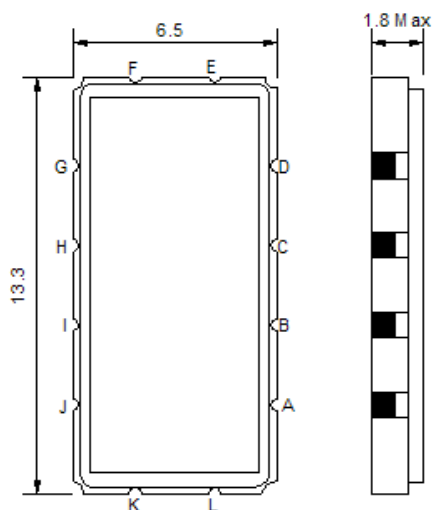
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813-SL128.0625M-02A

January 2011 Rev A

128.0625 MHz IF SAW Filter 1.875 MHz Bandwidth

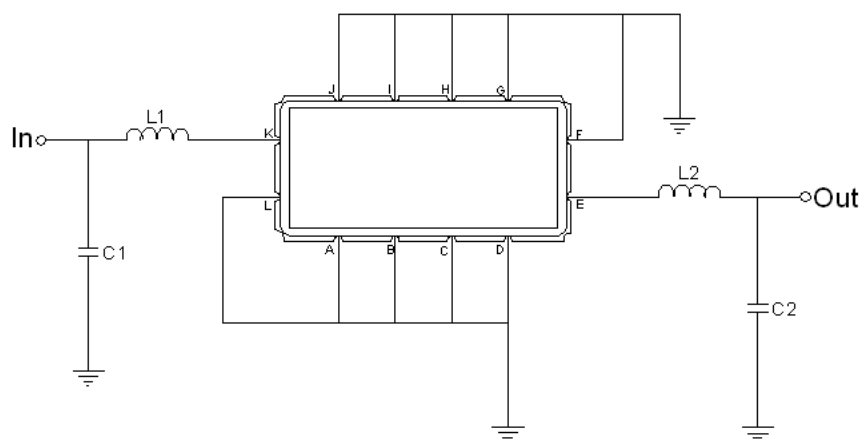
Mechanical Dimensions (mm)



Pin Description

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

Test Circuit



Test Fixture & Values

Input	L1=100 nH, C1=27pF
Output	L2=82 nH, C2=43pF
Source/Load Impedance	50 Ω

**Maximum Ratings**

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	0	-	60
Storage Temperature Range	°C	-20	-	70
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	127.9625	128.0625	128.1625
Insertion Loss at Fo	dB	-	20.0	24.0
Group Delay Variation (Fo $\pm$ 0.9375MHz)	nsec	-	60	120
Absolute Delay	usec	-	1.72	-
Temperature Coefficient	ppm/°C	-	-0.03	-
Passband Ripple (Fo $\pm$ 0.9375MHz)	dB	-	0.4	1.00
Bandwidth at -1dB	MHz	1.875	2.24	-
Bandwidth at -30dB	MHz	-	3.71	-
Bandwidth at -40dB	MHz	-	3.89	4.50
Ultimate Rejection	dB	48	53	-
Relative Attenuation Fo $\pm$ 2.1625MHz	dB	30	60	-



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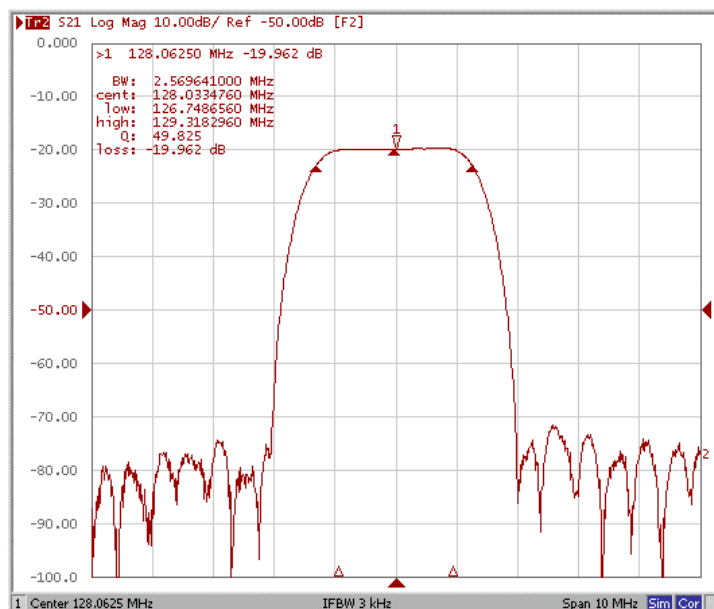
813-SL128.0625M-02A

January 2011 Rev A

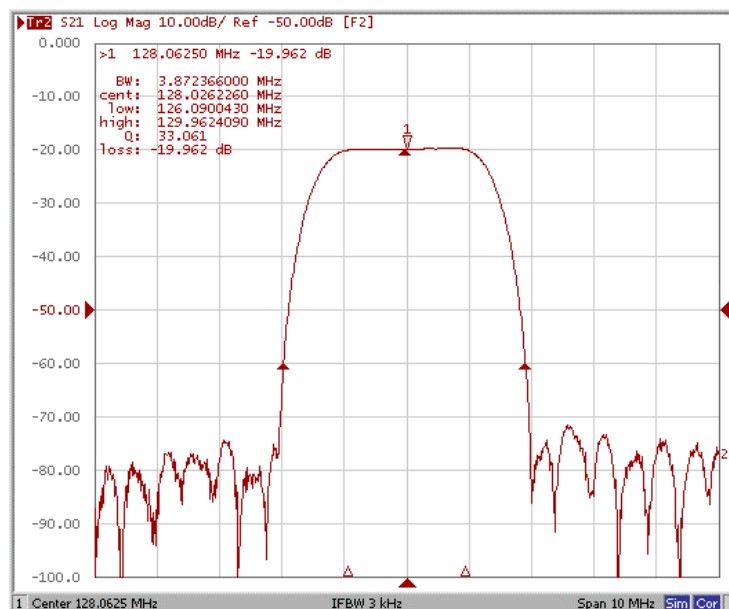
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Frequency Response

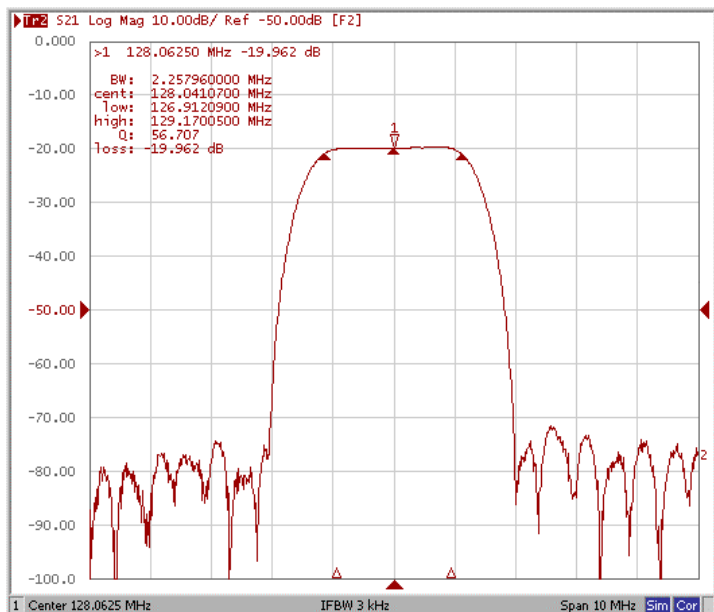
Bandwidth at -3.0 dB



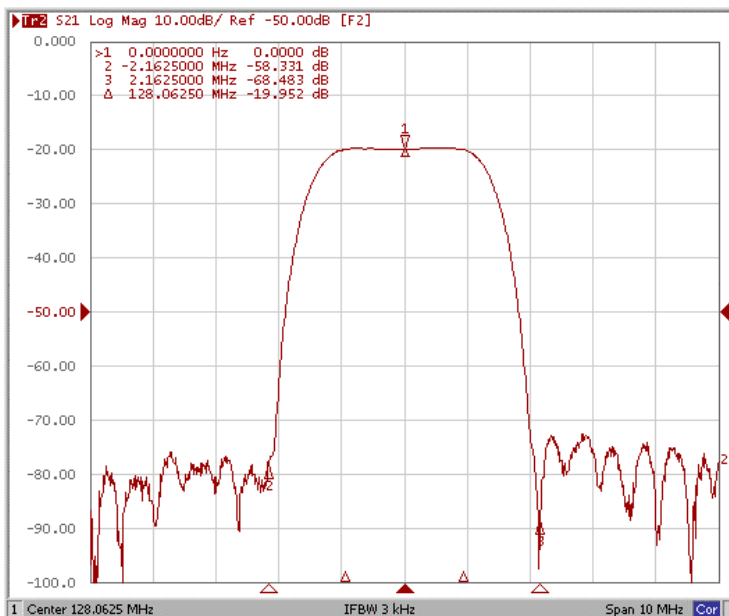
Bandwidth at -40.0 dB



Bandwidth at -1.0 dB



Relative Attenuation Fo $\pm$ 2.1625MHz





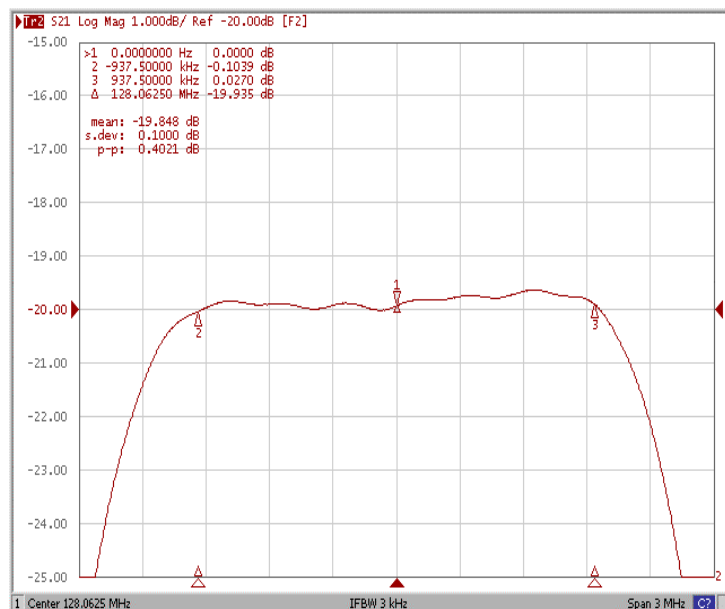
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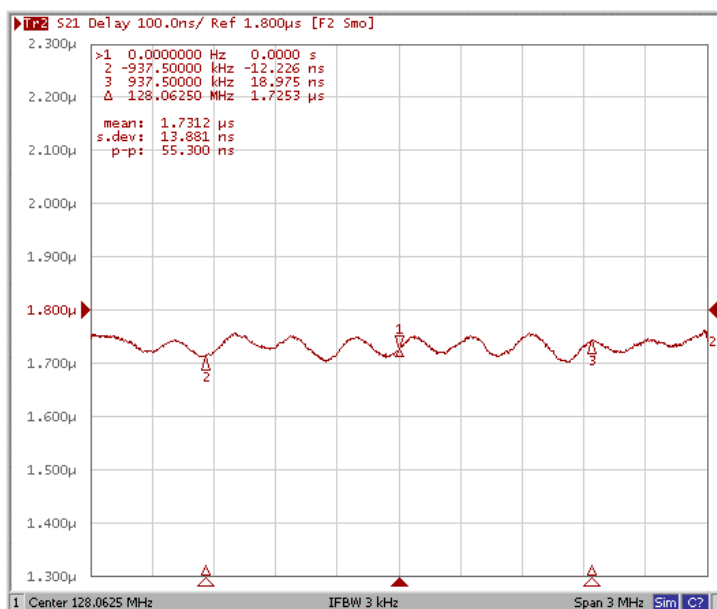
January 2011 Rev A

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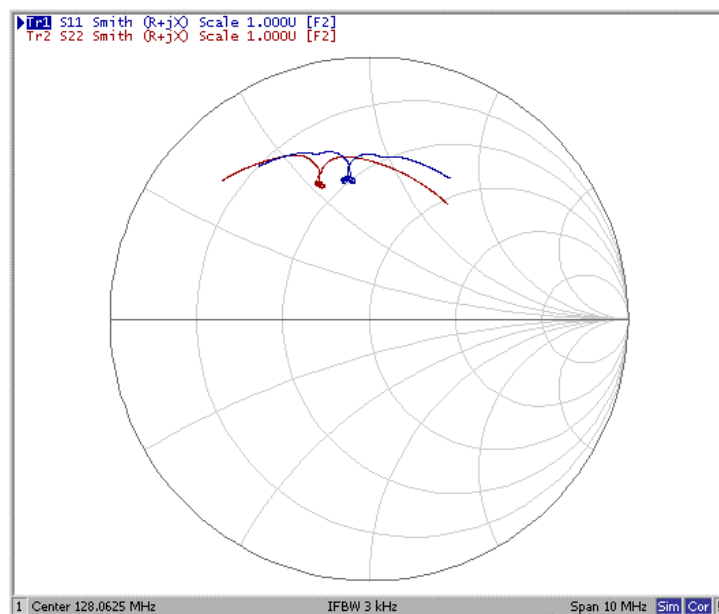
Ripple Variation Fo $\pm$ 0.9375MHz



Group Delay Variation Fo $\pm$ 0.9375MHz



Smith Chart





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