PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL62.5M-19B	62.5MHz IF SAW Filter 19.65MHz Bandwidth

Specification Contents

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

Notes

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

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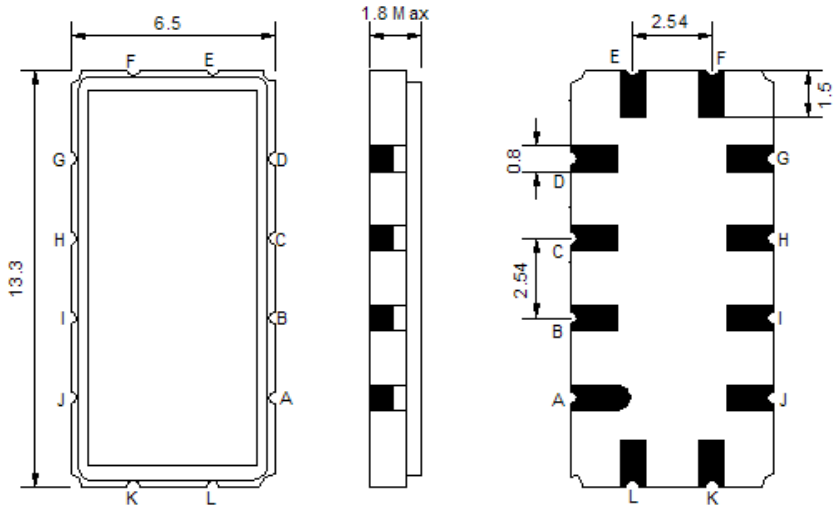
Oscilent Part Number

813-SL62.5M-19B

January 2011 Rev A

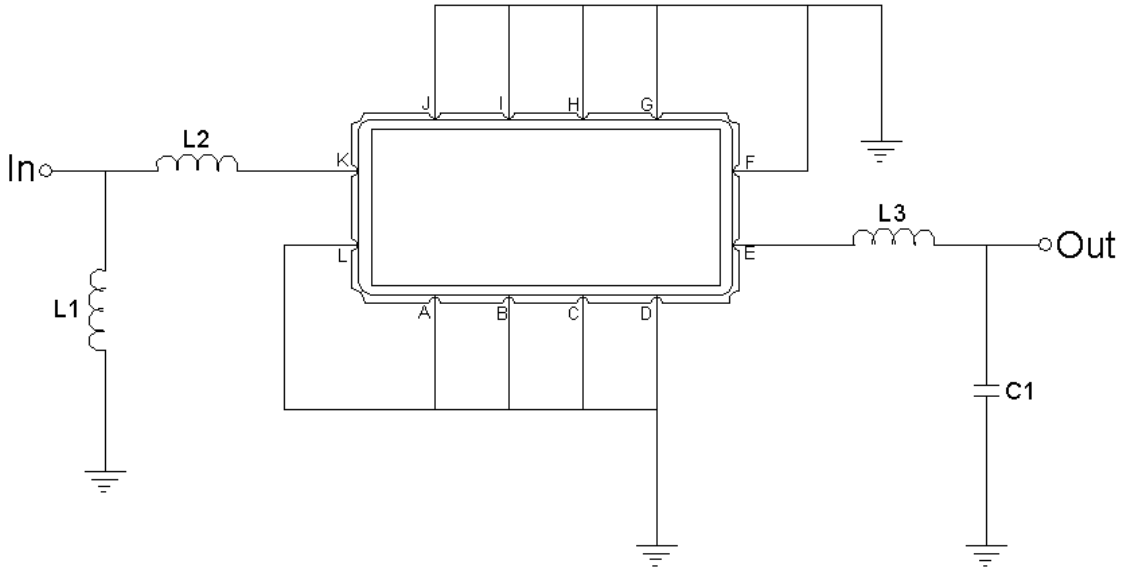
62.5MHz IF SAW Filter 19.65MHz Bandwidth

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=82nH, L2=6.8nH
Output	L3=150nH, C1=22pF
Source/Load Impedance	50 Ω

Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-20	-	70
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	-

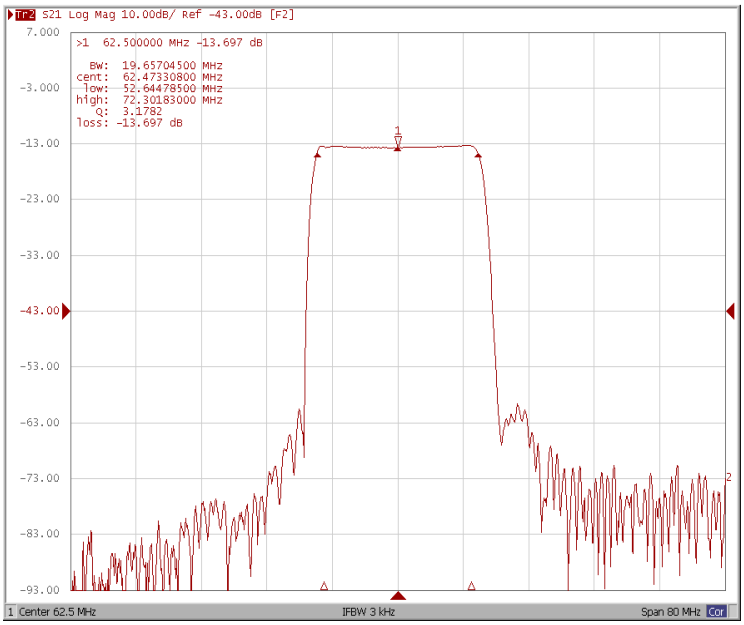
Notes: With Matching Network (Ref. Testing Environment Circuit as shown above).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Electrical Specification

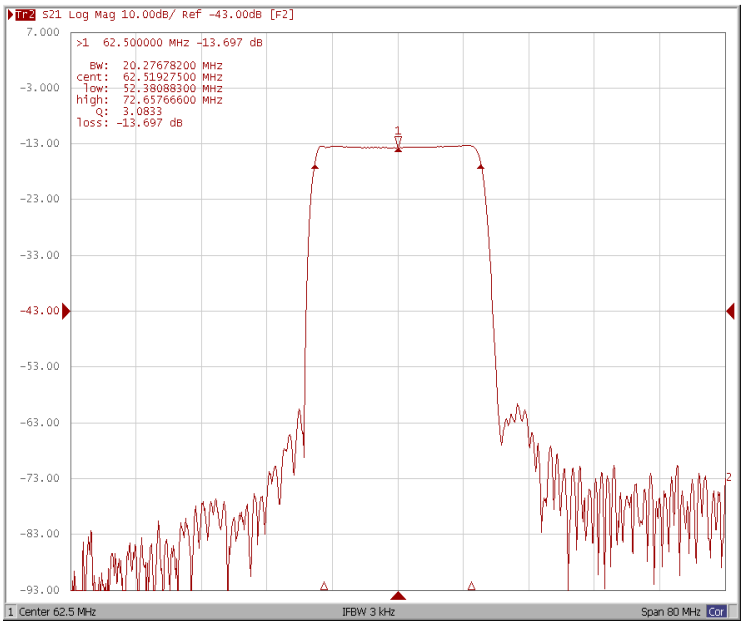
Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	62.5	-
Insertion Loss at Fo	dB	-	13.7	15.0
Temperature Coefficient	ppm/°C	-	-86	-
Amplitude Ripple within fo ±9.0 MHz	dB_{p-p}	-	0.45	0.80
Group Delay Variation within fo ±9.0 MHz	nsec	-	35	60
Absolute Delay at Fo	μsec	-	1.12	-
Bandwidth at –1.0 dB	MHz	-	19.65	-
Bandwidth at –3.0 dB	MHz	20.10	20.27	-
Bandwidth at –40.0 dB	MHz	-	23.40	24.0
Relative Attenuation:				
Lower Sidelobe	dB	45	48	-
Upper Sidelobe	dB	45	48	-

Frequency Response

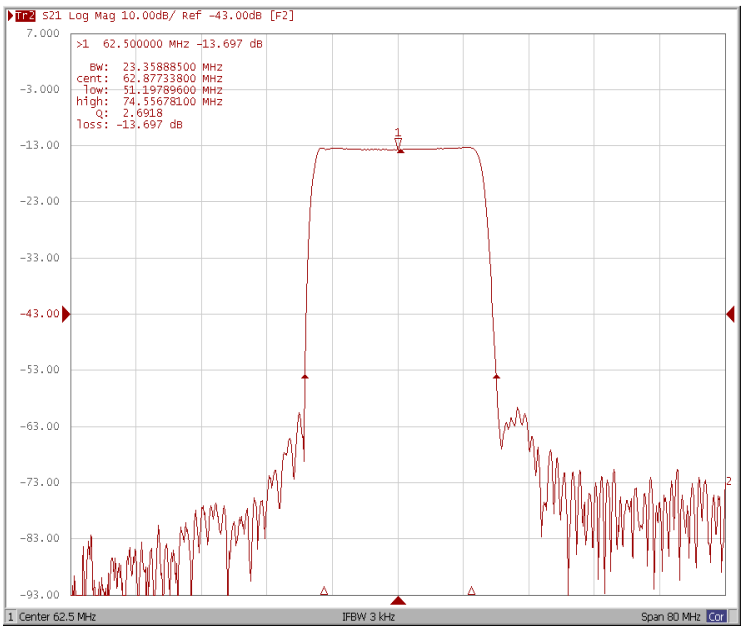
Bandwidth at –1.0 dB



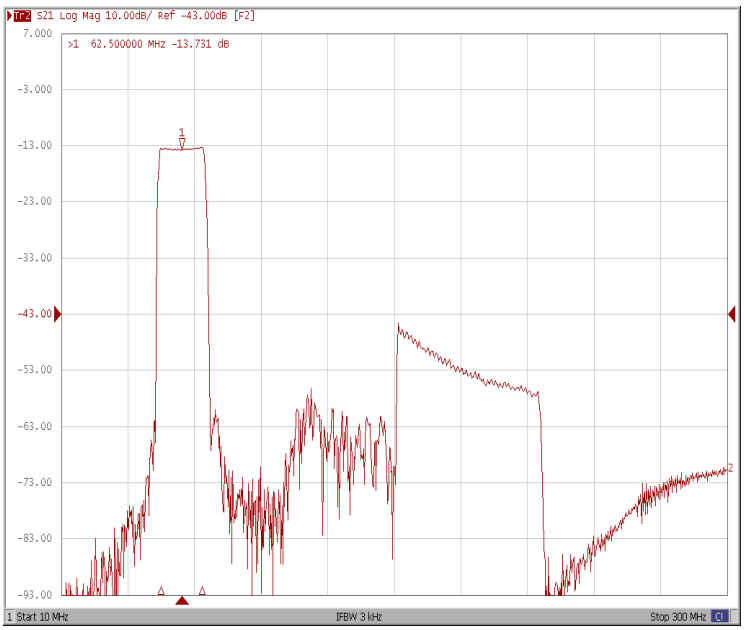
Bandwidth at –3.0 dB



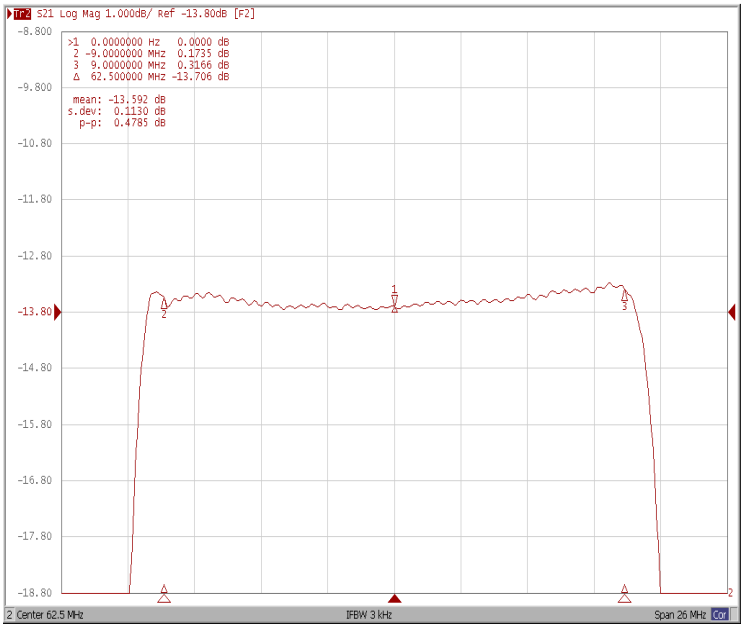
Bandwidth at –40.0 dB



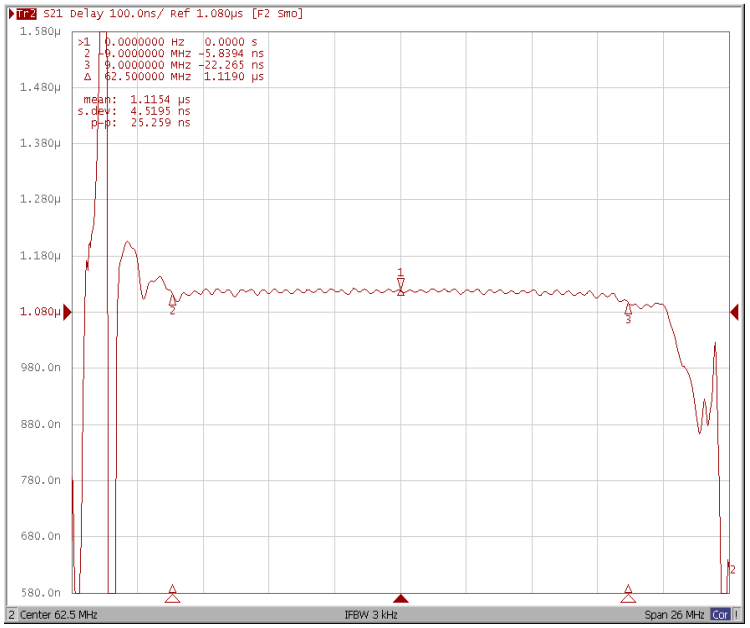
Wide-Band



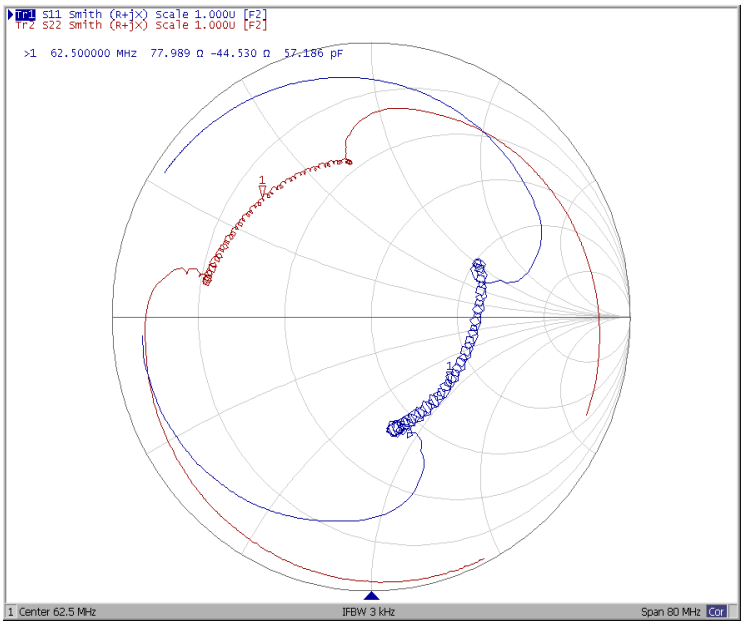
Ripple Variation Fo±9.0MHz



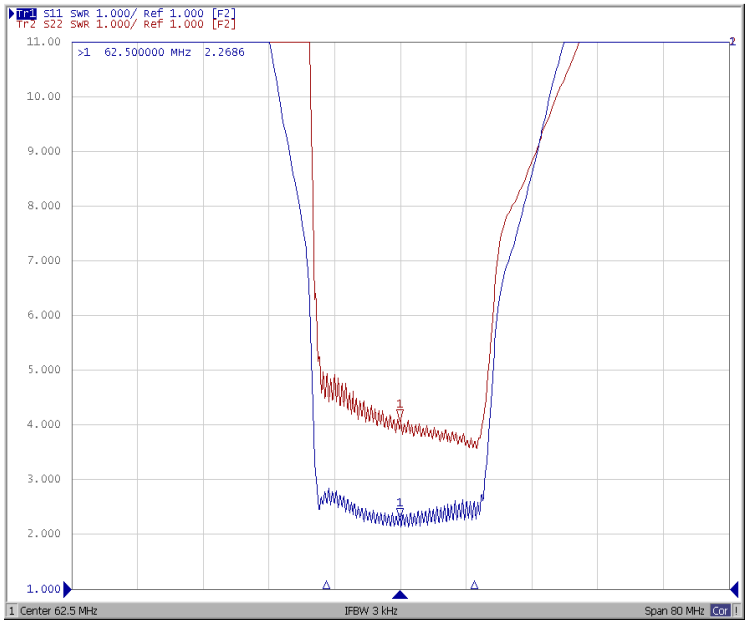
Group Delay Variation Fo±9.0MHz



Smith Chart



VSWR


Tr1 S11 SWR 1.000/ Ref 1.000 [F2]
Tr2 S22 SWR 1.000/ Ref 1.000 [F2]
>1 62.500000 MHz 2.2686
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
1 Center 62.5 MHz
IFBW 3 kHz
Span 80 MHz
Cor