PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
809-SL62.5M-19D	62.50 MHz IF SAW Filter 19.20 MHz Bandwidth

Specification Contents

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

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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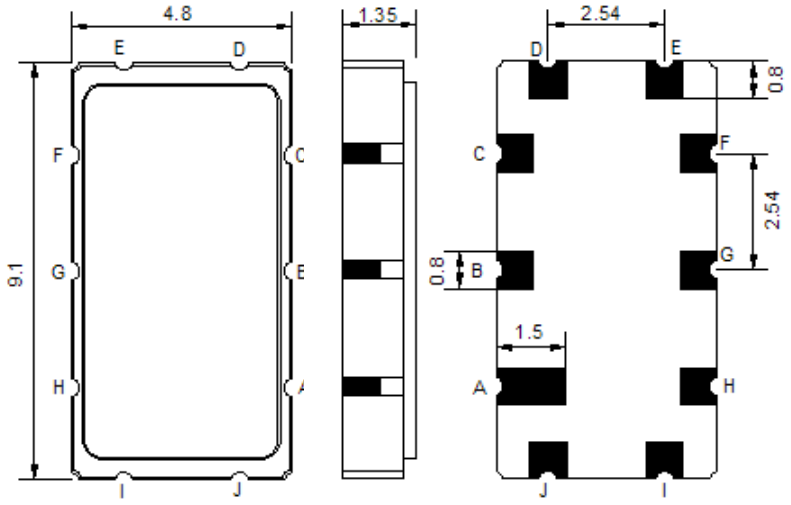
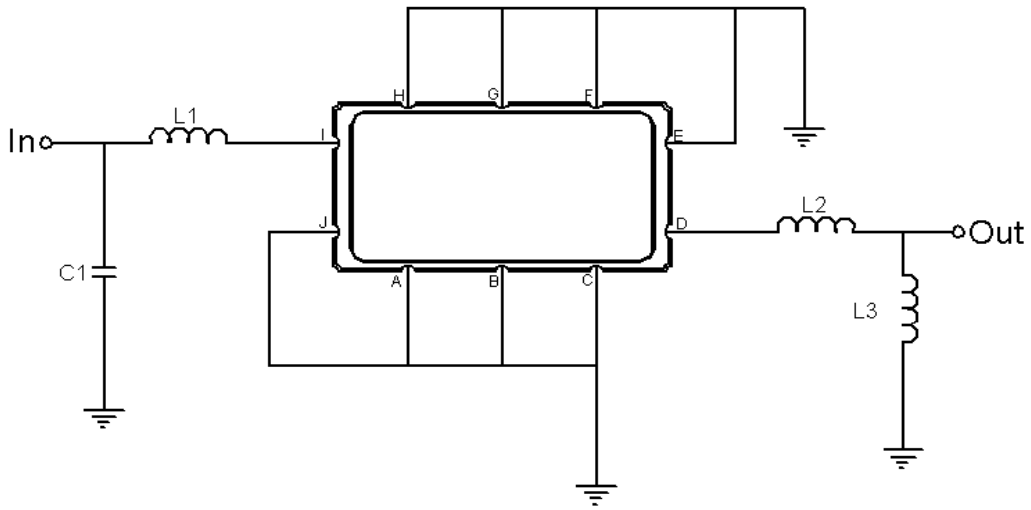
Mechanical Dimensions (mm)



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

Test Circuit



Test Fixture & Values	
Input	L1 = 150 nH, C1 = 56 pF
Output	L2 = 33 nH, C2 = 68 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	-

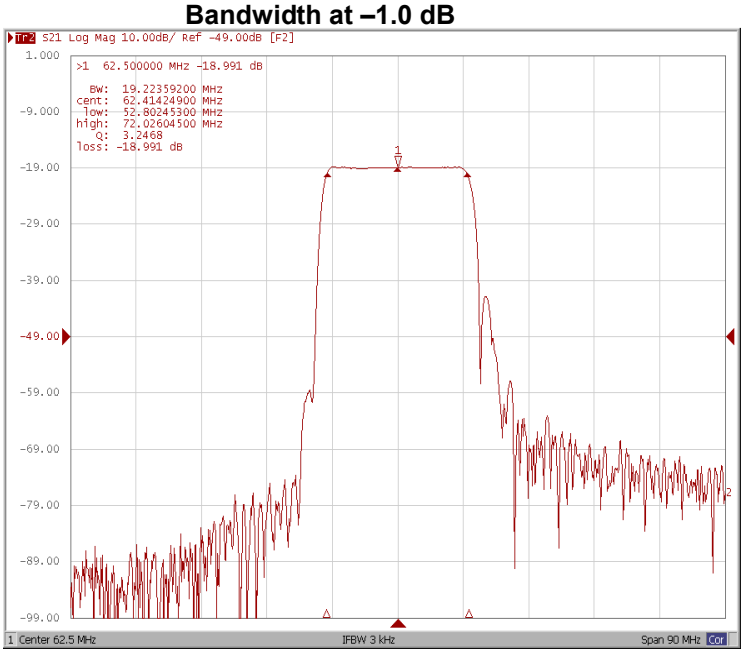
Notes: With Matching Network (Ref. Testing Environment Circuit as shown above).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Electrical Specification

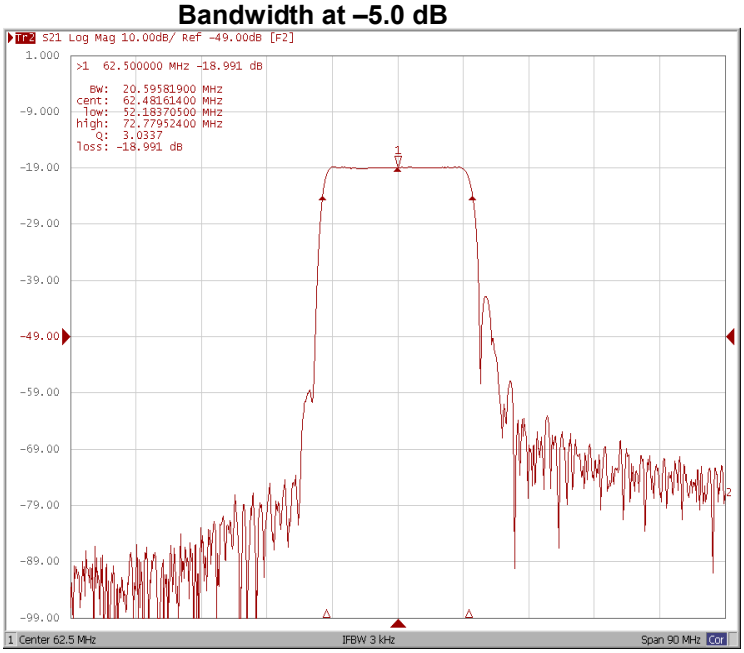
Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	62.50	-
Insertion Loss at Fo	dB	-	19.0	20.5
Group Delay Variation at Fo±9.22MHz	nsec	-	30	80
Absolute Delay at Fo	usec	-	0.98	-
Passband Ripple at Fo±9.22MHz	dB	-	0.70	1.0
Bandwidth at -1dB	MHz	18.70	19.20	-
Bandwidth at -5dB	MHz	-	20.60	-
Bandwidth at -7dB	MHz	-	20.95	-
Bandwidth at -40dB	MHz	-	25.60	26.50
Relative Attenuation:				
Lower sidelobe	dB	40	45	-
Upper sidelobe	dB	40	45	-

Frequency Response

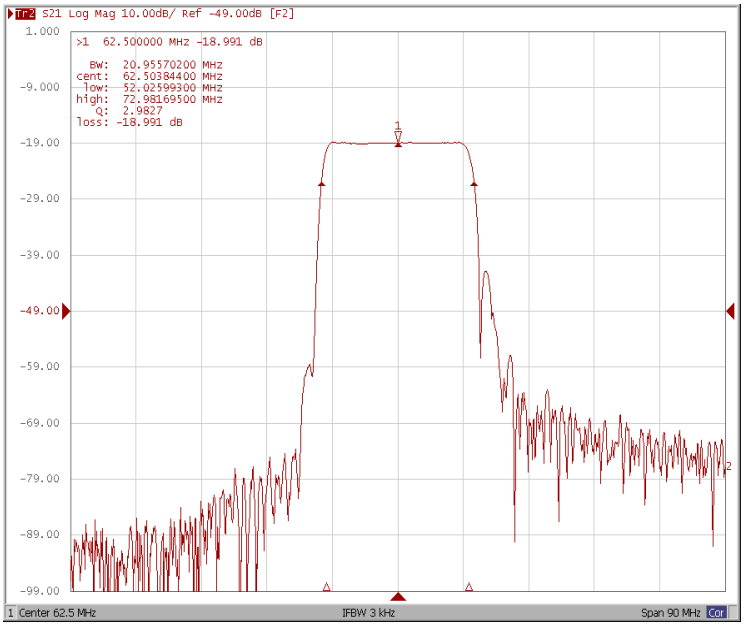
Bandwidth at –1.0 dB



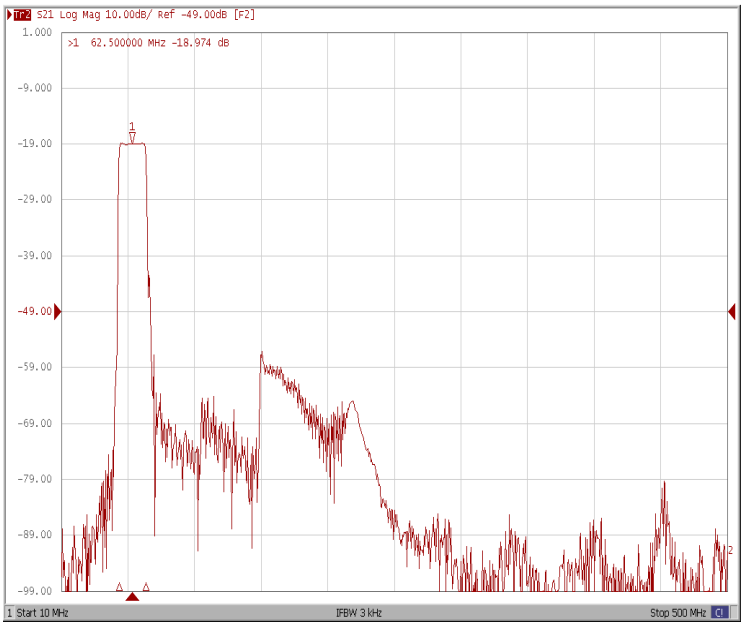
Bandwidth at –5.0 dB



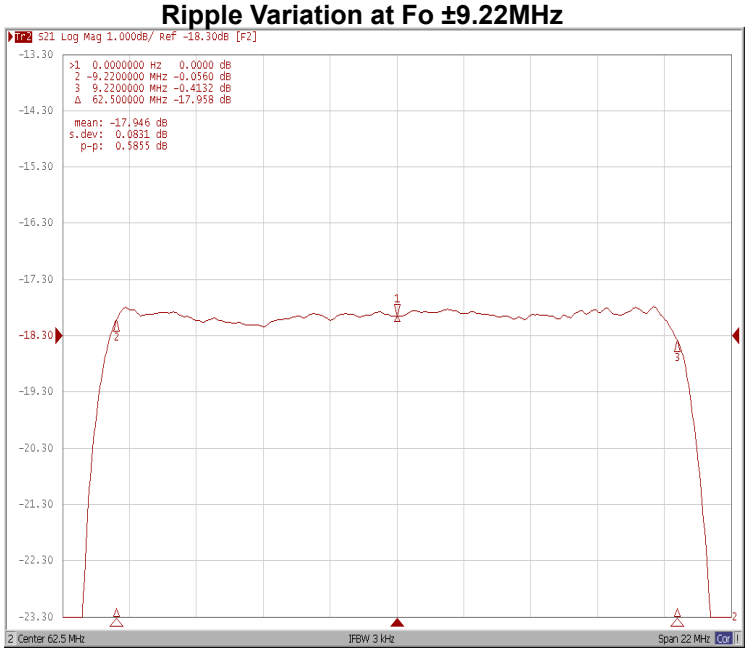
Bandwidth at –7.0 dB



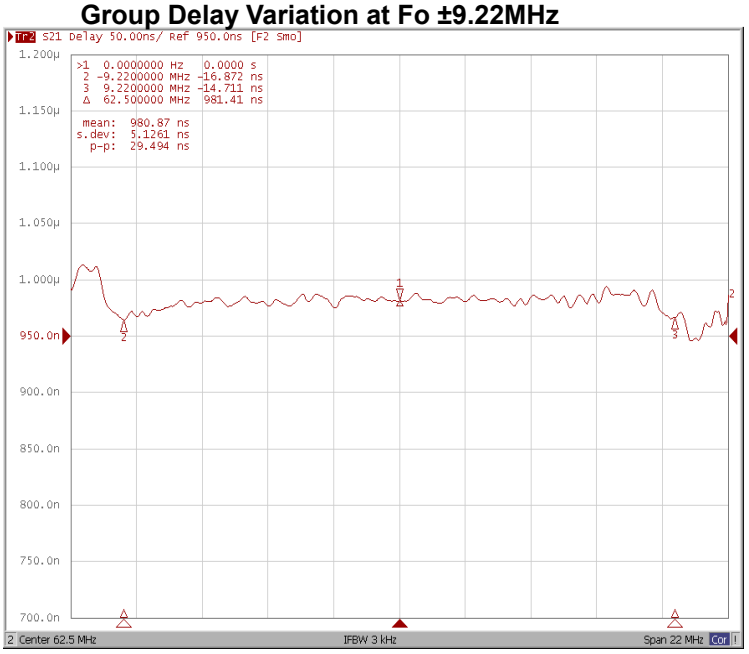
Wide-Band



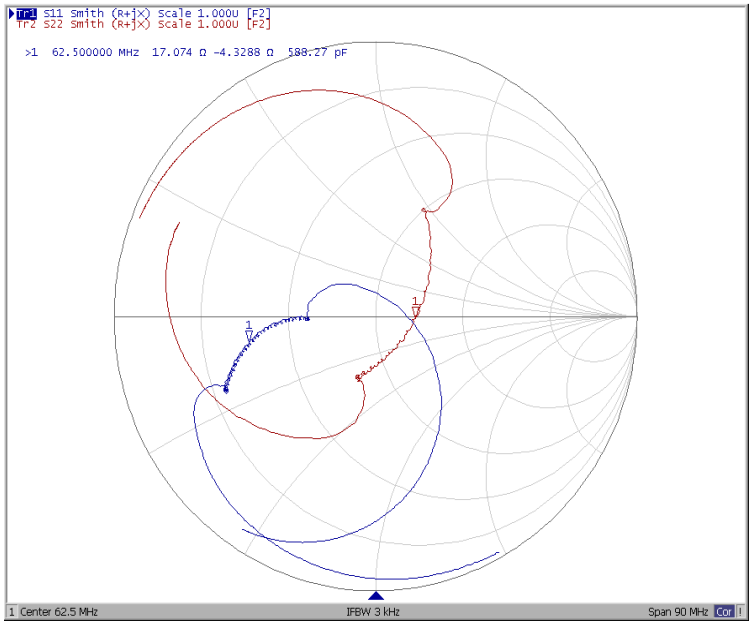
Ripple Variation at Fo ±9.22MHz



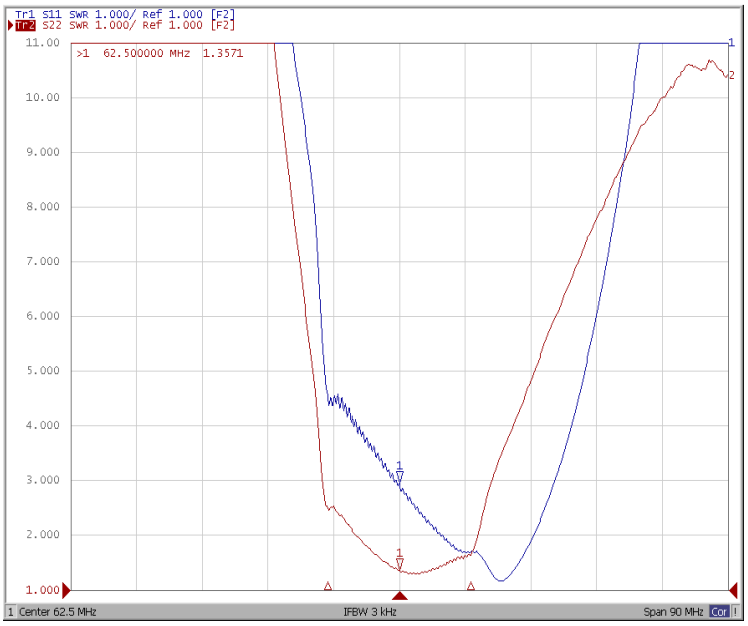
Group Delay Variation at Fo ±9.22MHz



Smith Chart



SWR


Tr1 S11 SWR 1.000/ Ref 1.000 [F2]
Tr2 S22 SWR 1.000/ Ref 1.000 [F2]
>1 62.500000 MHz 1.3571
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 90 MHz