PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
809-SL62.5M-21A	62.5 MHz IF SAW Filter 21.3 MHz 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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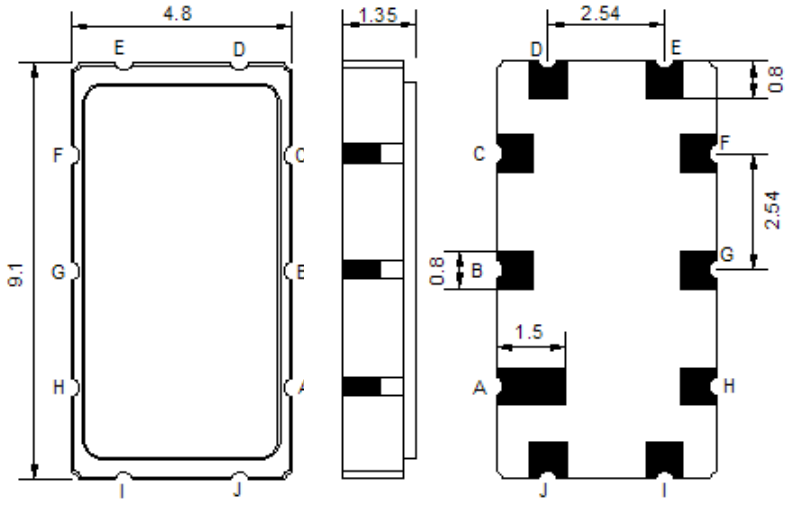
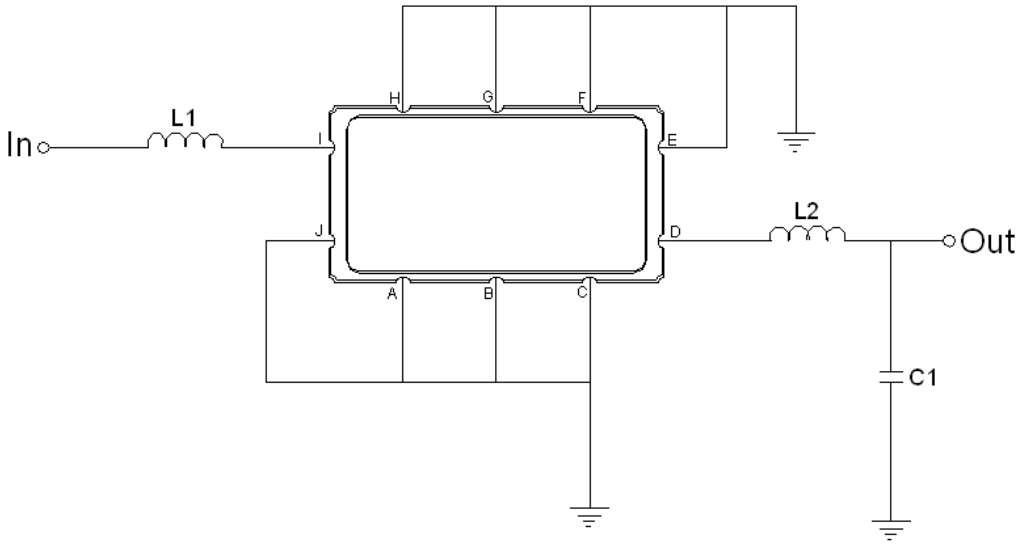
Mechanical Dimensions (mm)



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

Test Circuit



Test Fixture & Values	
Input	L1 = 180 nH
Output	L2 = 270 nH, C1 = 4 pF
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	-

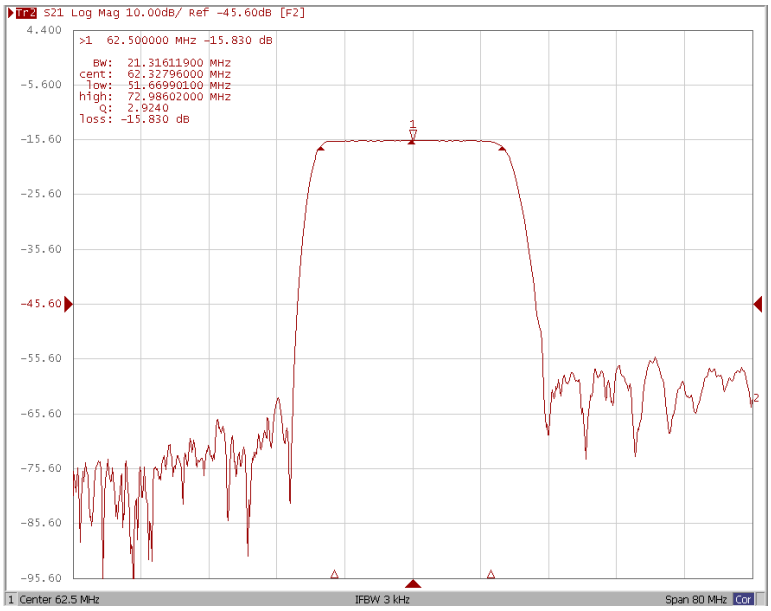
Notes: With Matching Network (Ref. Testing Environment Circuit as shown above).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Electrical Specification

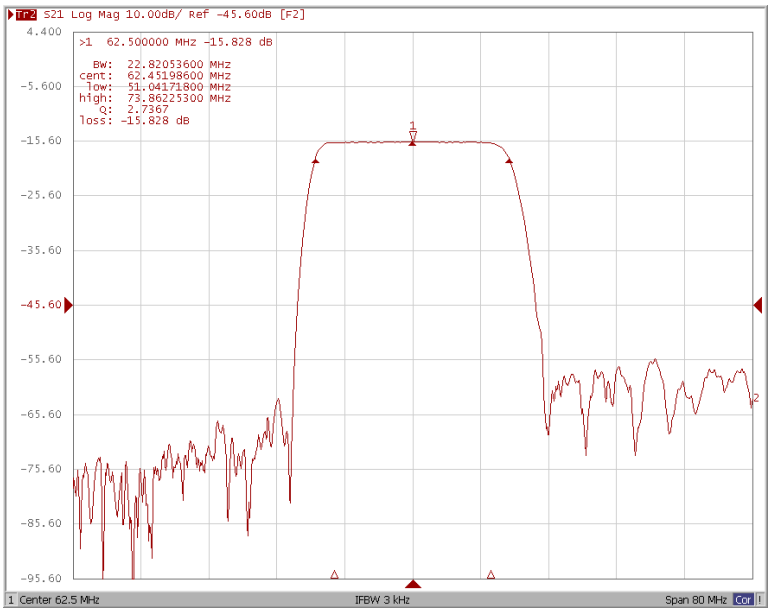
Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	62.5	-
Insertion Loss at Fo	dB	-	15.8	18.0
Group Delay Variation (Fo±9.22MHz)	nsec	-	17	35
Absolute Delay at Fo	usec	-	0.66	-
Passband Ripple (Fo±9.22MHz)	dB	-	0.30	0.7
Bandwidth at -1dB	MHz	20.80	21.30	-
Bandwidth at -3dB	MHz	21.80	22.82	-
Bandwidth at -20dB	MHz	-	26.80	-
Bandwidth at -30dB	MHz	-	28.10	28.60
Bandwidth at -40dB	MHz	-	29.25	30.00
Ultimate Rejection	dB	-	40	-
Temperature coefficient	ppm/°C	-	-86	-

Frequency Response

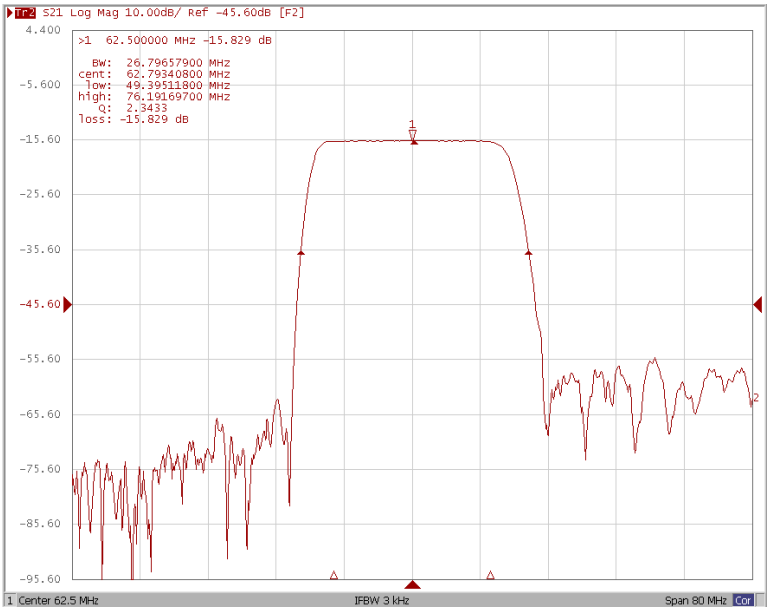
Bandwidth at –1.0 dB



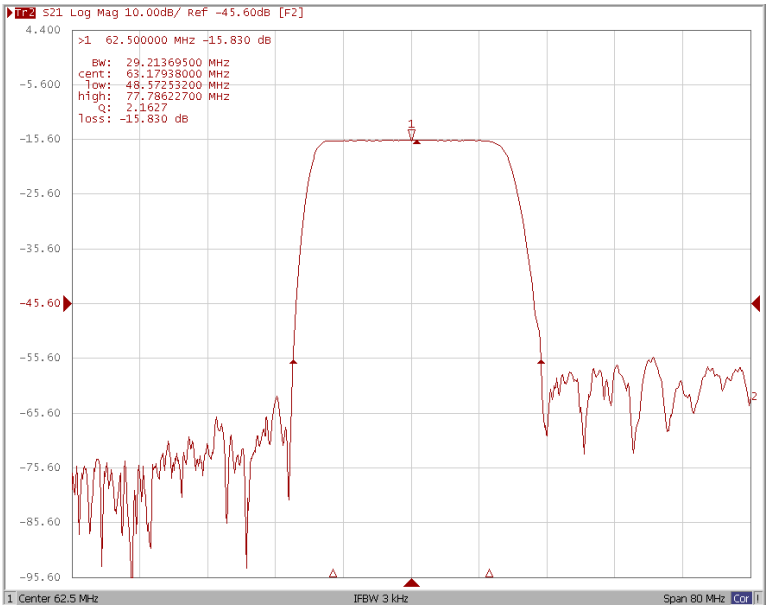
Bandwidth at –3.0 dB



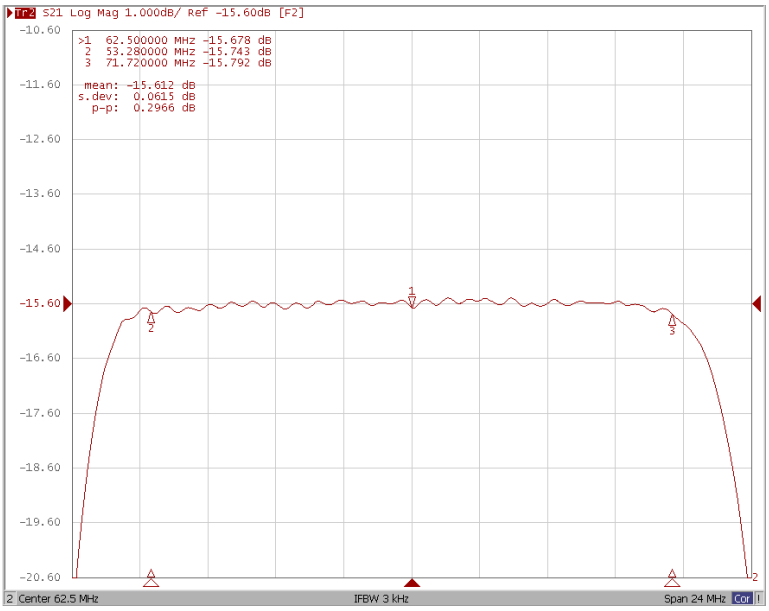
Bandwidth at –20.0 dB



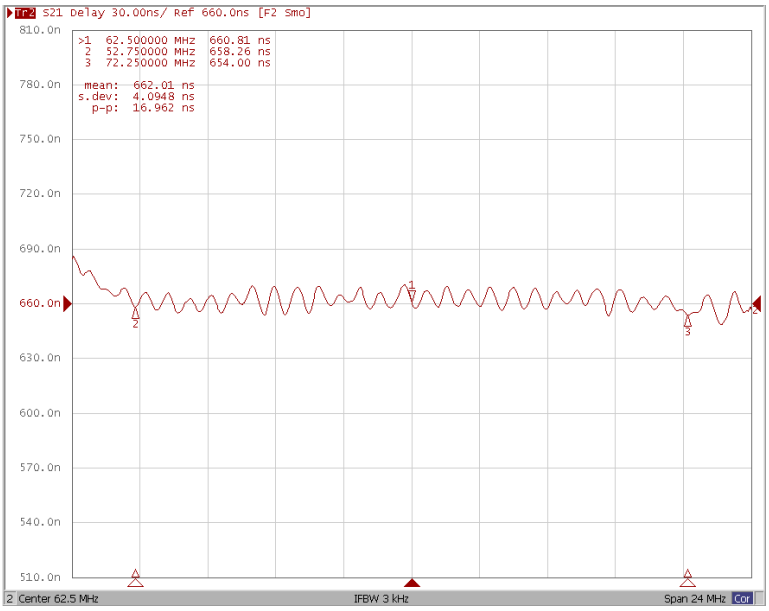
Bandwidth at –40.0 dB



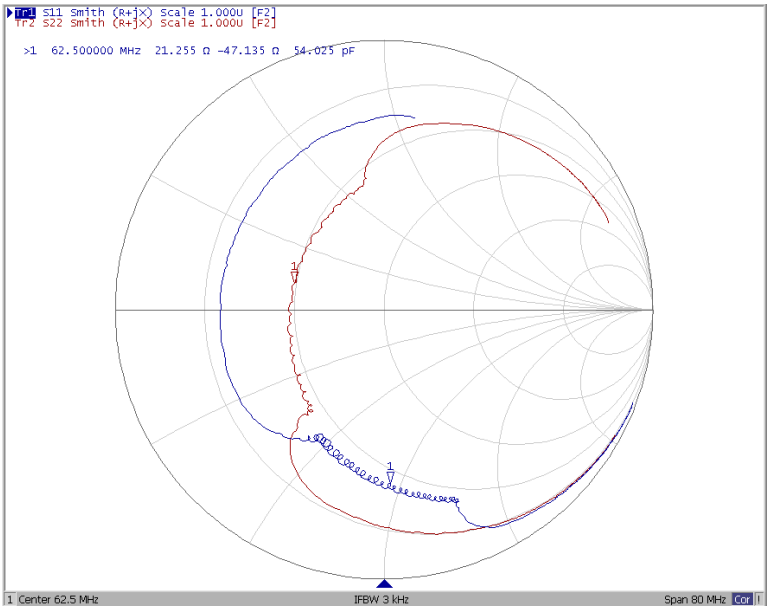
Ripple Variation at Fo ±9.22MHz



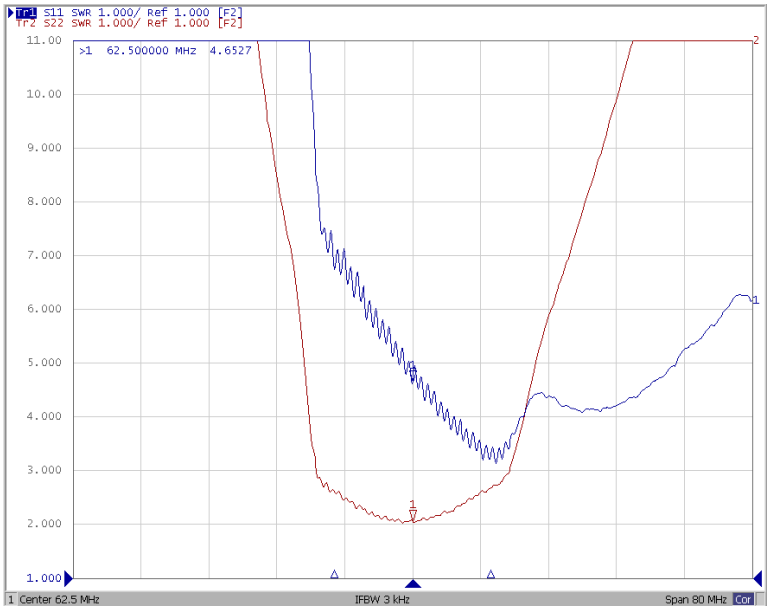
Group Delay Variation at Fo ±9.75MHz



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 4.6527
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