



REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL92.16M-07A	92.16MHz IF SAW Filter 7.36MHz Bandwidth

Specification Contents

- o Mechanical Dimensions
- o Test Circuit
- o Maximum Ratings
- o Electrical Specification
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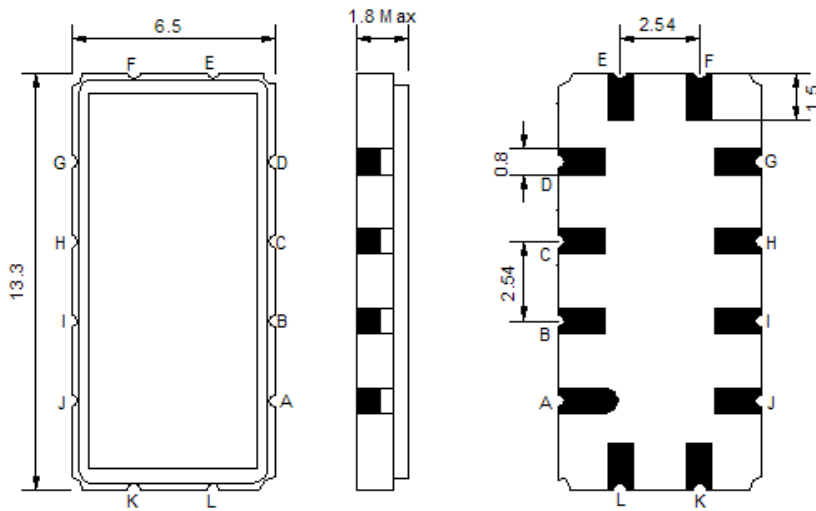
Notes

- 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)



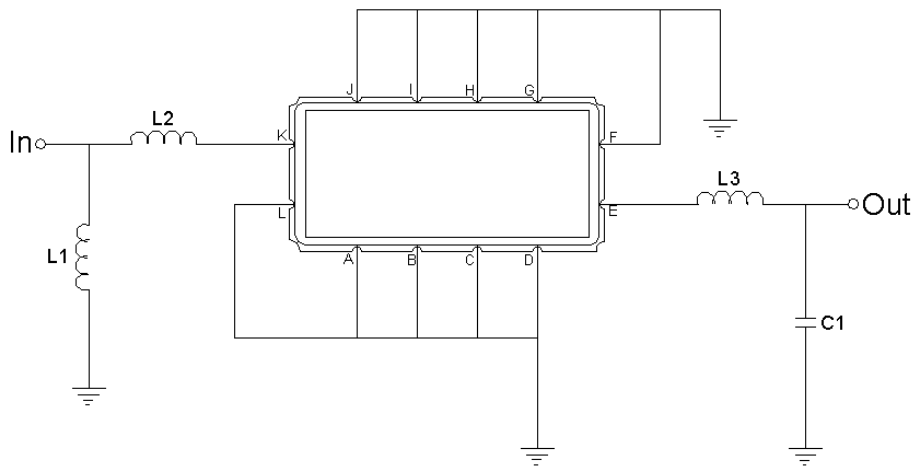


Mechanical Dimensions (mm)



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

Test Circuit



Test Fixture & Values	
Input	L1 = 47 nH, L2=39pF
Output	L3 = 150 nH, C1=30pF
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.

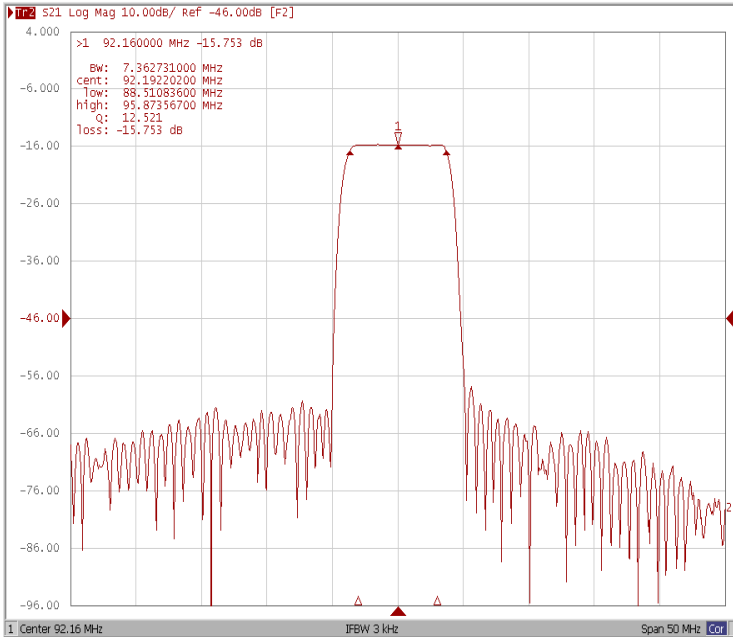
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	92.16	-
Insertion Loss at Fo	dB	-	15.8	18.0
Group Delay Variation (89.16MHz~95.16MHz)	nsec	-	32	70
Absolute Delay Time at Fo	usec	-	1.44	-
Temperature Coefficient	ppm/°C	-	-20	-
Amplitude Ripple (89.16MHz~95.16MHz)	dB	-	0.3	0.7
Bandwidth at -1dB	MHz	7.00	7.36	-
Bandwidth at -40dB	MHz	-	10.03	10.50
Relative Attenuation				
@86.16MHz	dB	-	45	-
@98.16MHz	dB	-	45	-
Ultimate Rejection	dB	-	45	-

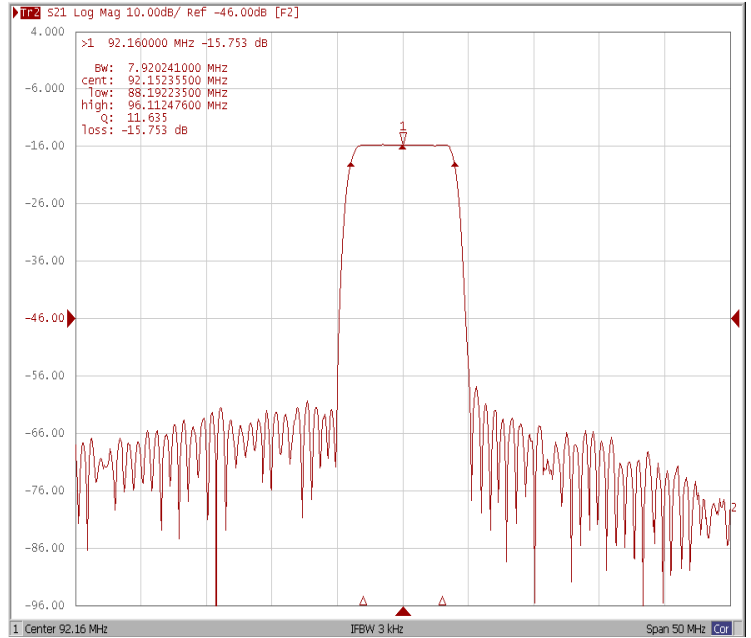


Frequency Response

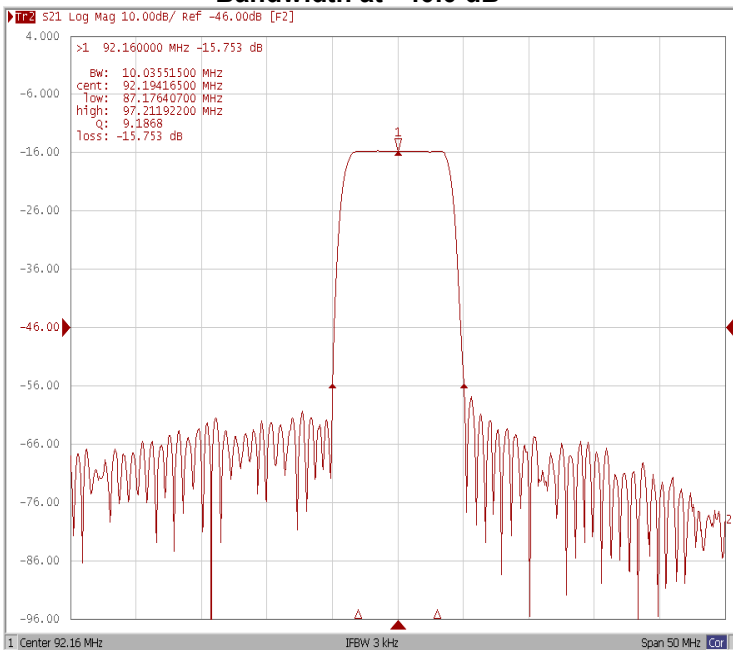
Bandwidth at -1.0 dB



Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

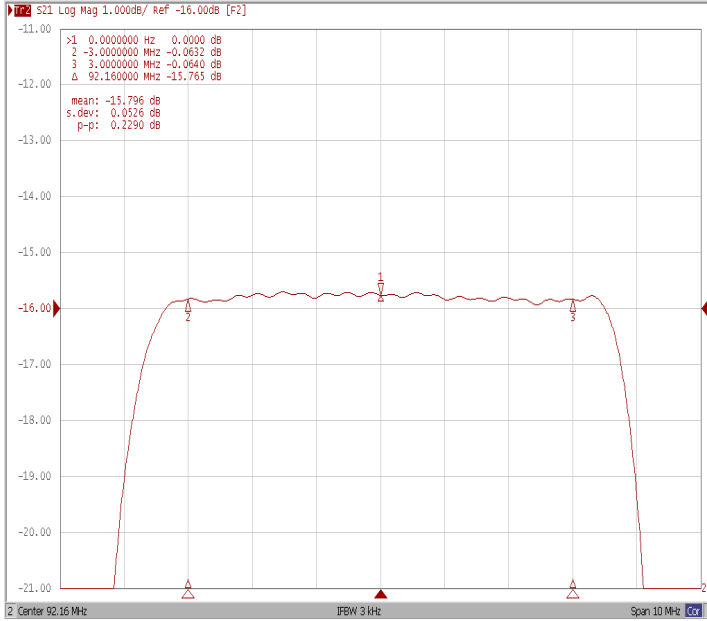


Relative Attenuation 86.16MHz / 98.16MHz

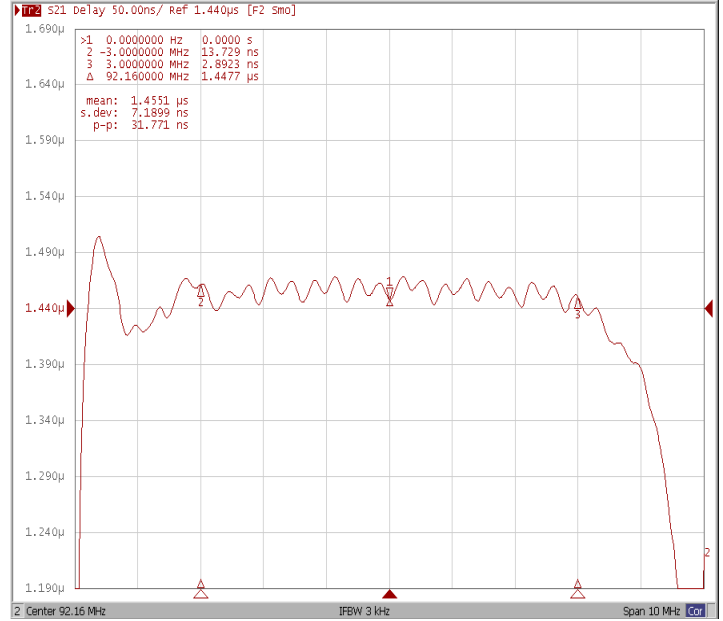




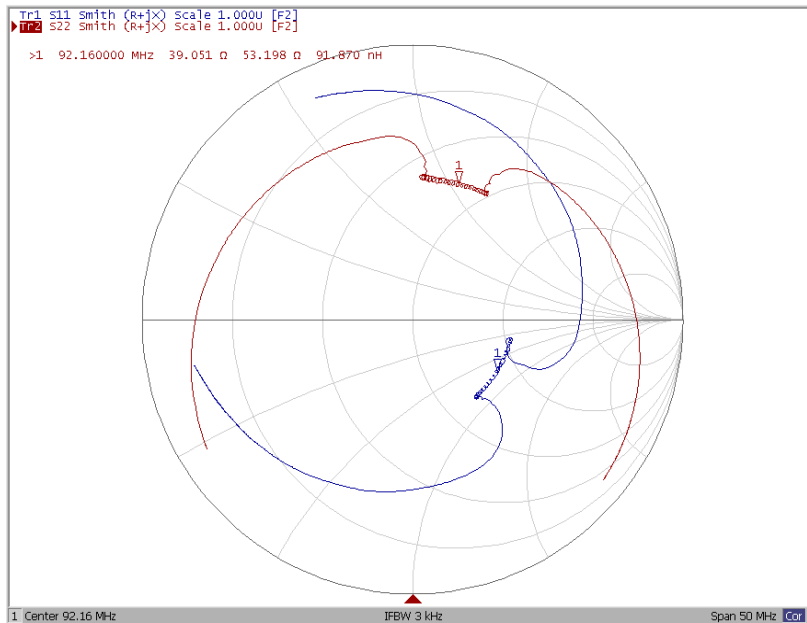
Ripple Variation (89.16MHz~95.16MHz)



Group Delay Variation(89.16MHz~95.16MHz)



Smith Chart





VSWR

