



PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL75.0M-07B	75.0 MHz IF SAW Filter 7.12 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)



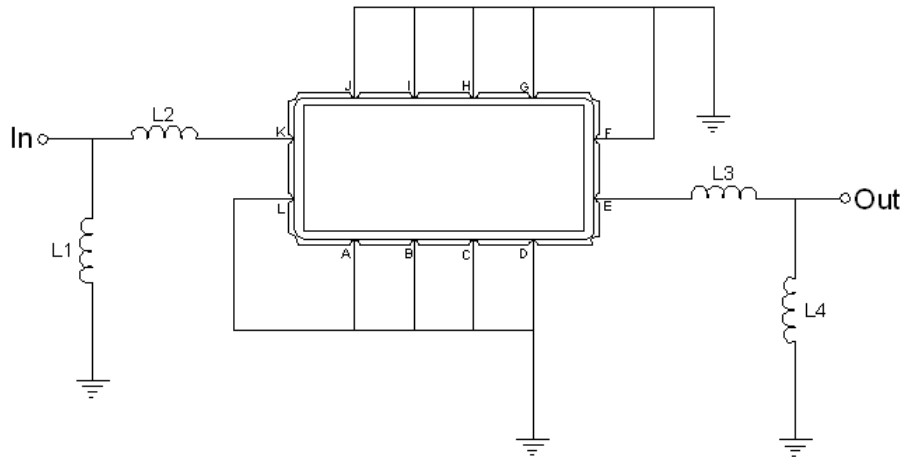


Mechanical Dimensions (mm)



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

Test Circuit



Test Fixture & Values	
Input	L1 = 33 nH, L2 = 8.2 nH
Output	L3 = 12 nH, L4 = 39 nH
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.

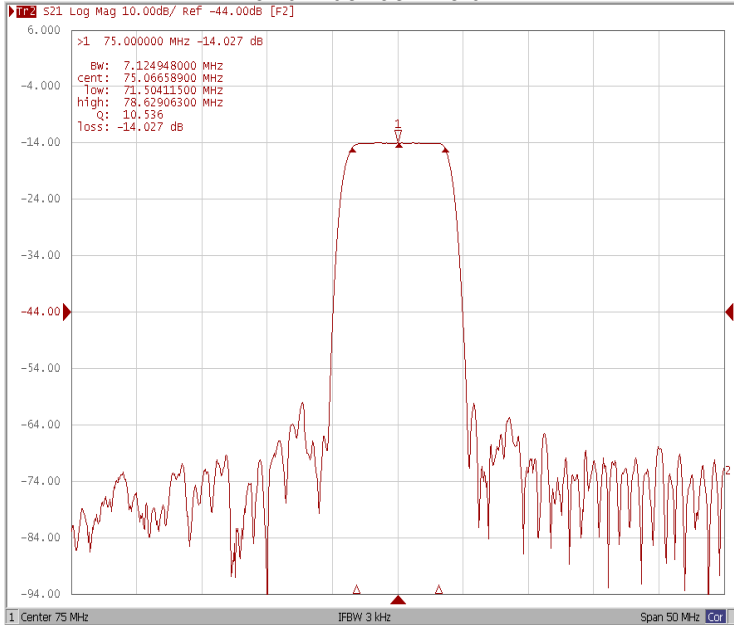
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	75.0	-
Insertion Loss at Fo	dB	-	14.0	17.0
Group Delay Variation (Fo±3.15MHz)	nsec	-	38	70
Absolute Delay at Fo	usec	-	1.23	-
Passband Ripple Variation (Fo±3.15MHz)	dB	-	0.32	0.80
Bandwidth at -1dB	MHz	6.90	7.12	-
Bandwidth at -3dB	MHz	-	7.85	-
Bandwidth at -40dB	MHz	-	10.35	10.60
Ultimate Rejection	dB	40	45	-
VSWR	dB	-	2.3	-
Temperature Coefficient	ppm/°C	-	-18	-

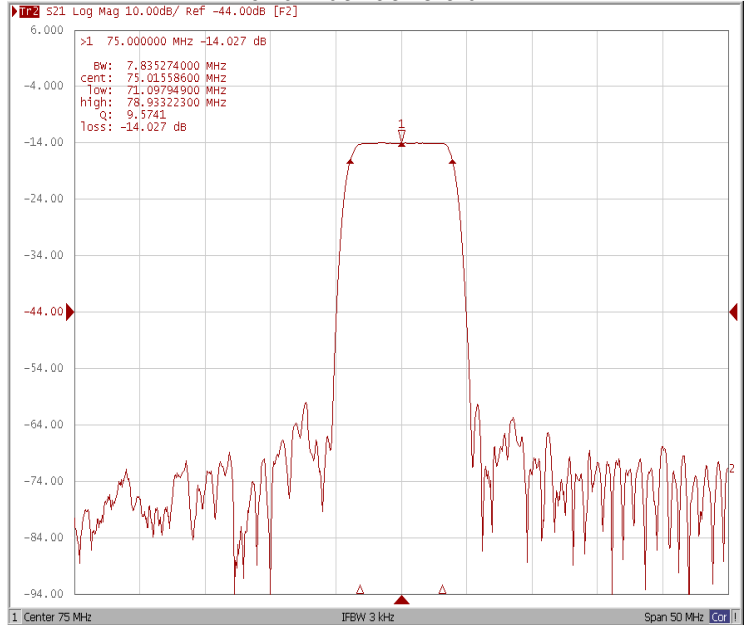


Frequency Response

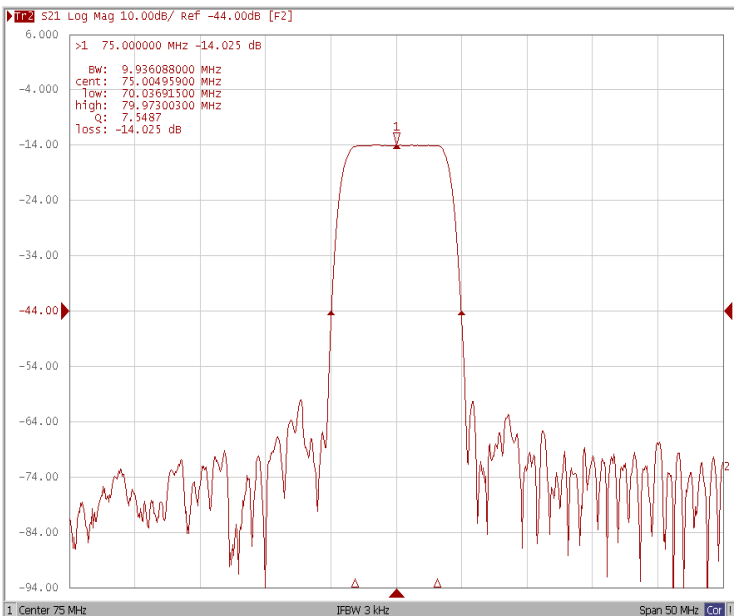
Bandwidth at -1.0 dB



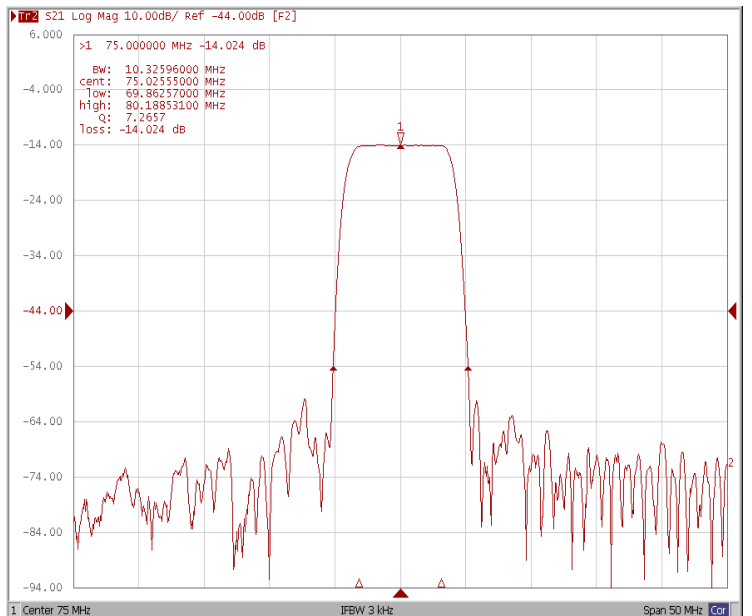
Bandwidth at -3.0 dB



Bandwidth at -30 dB

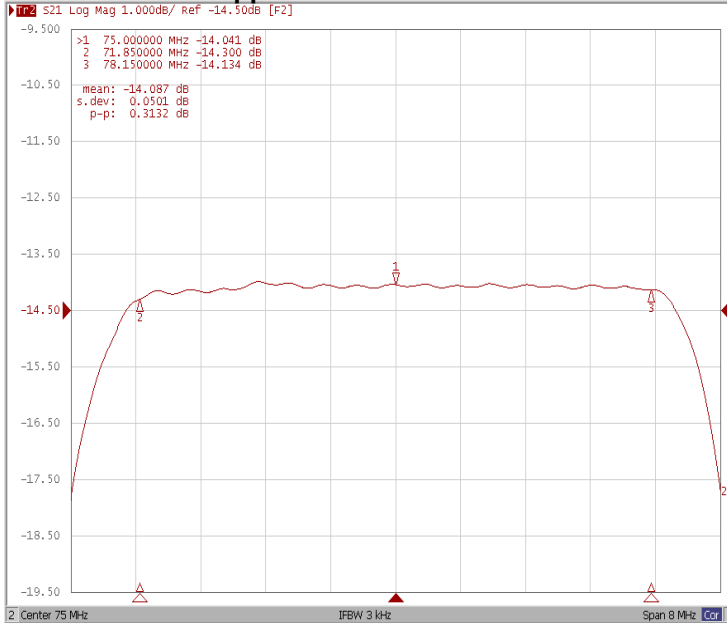


Bandwidth at -40 dB

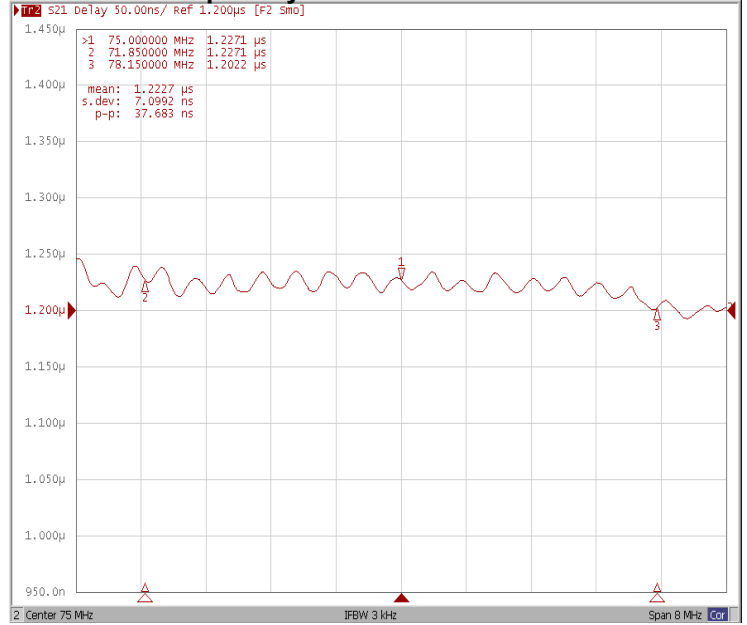




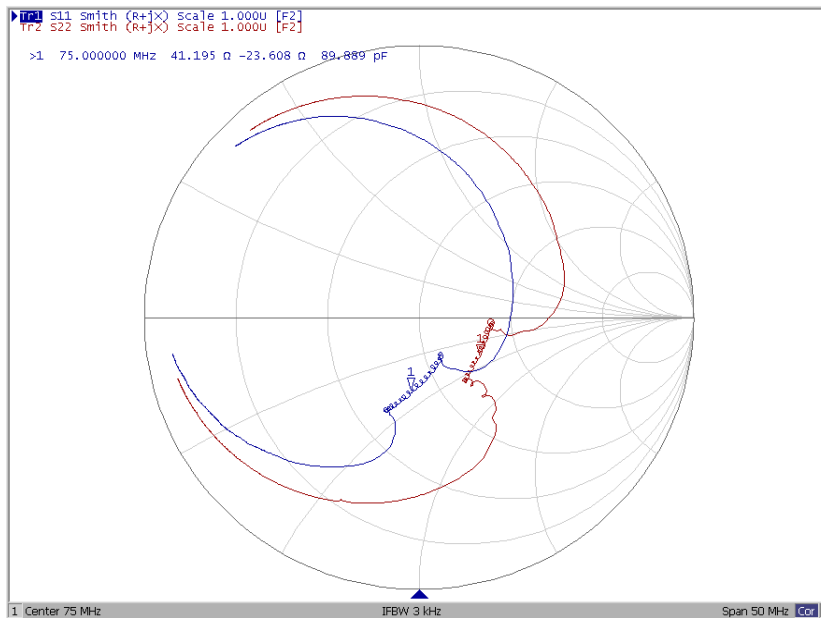
Ripple Variation Fo±3.15MHz



Group Delay Variation Fo±3.15MHz



Smith Chart





VSWR

