



REV A January 2011


Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL75.0M-24A	75.0MHz IF SAW Filter 24.35MHz Bandwidth

### Specification Contents

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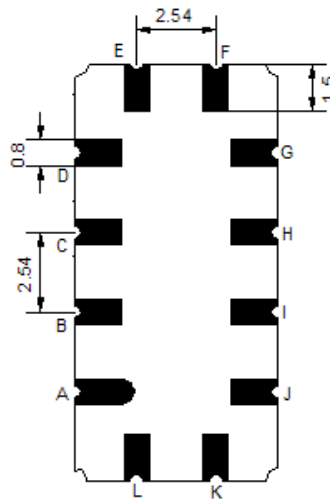
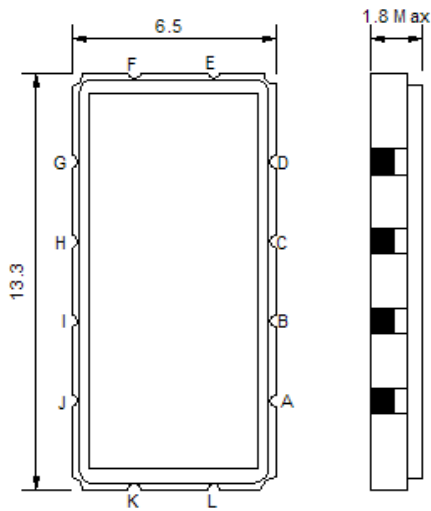
### Notes

- 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)



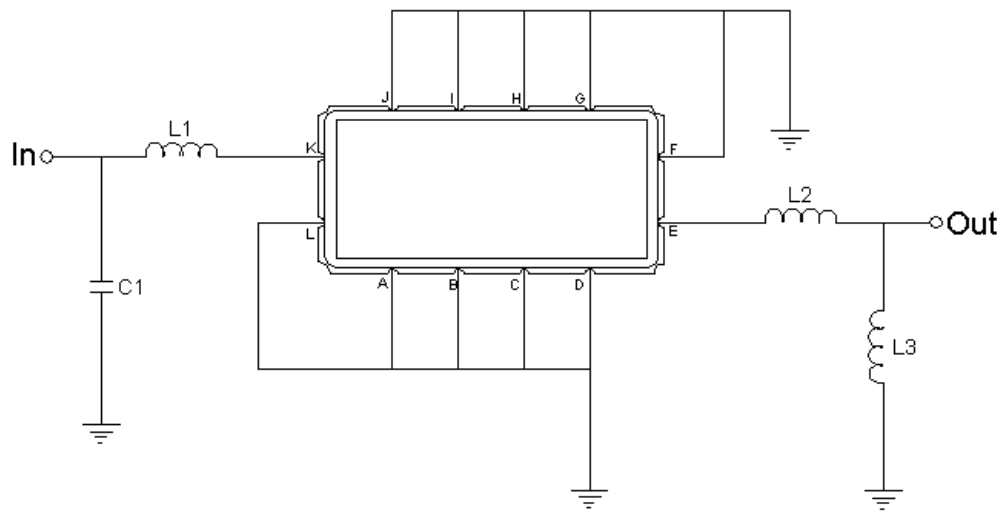


## Mechanical Dimensions (mm)



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

## Test Circuit



Test Fixture & Values	
Input	L1=100nH, C1=13pF
Output	L2=27nH, L3=100nH
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) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	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.

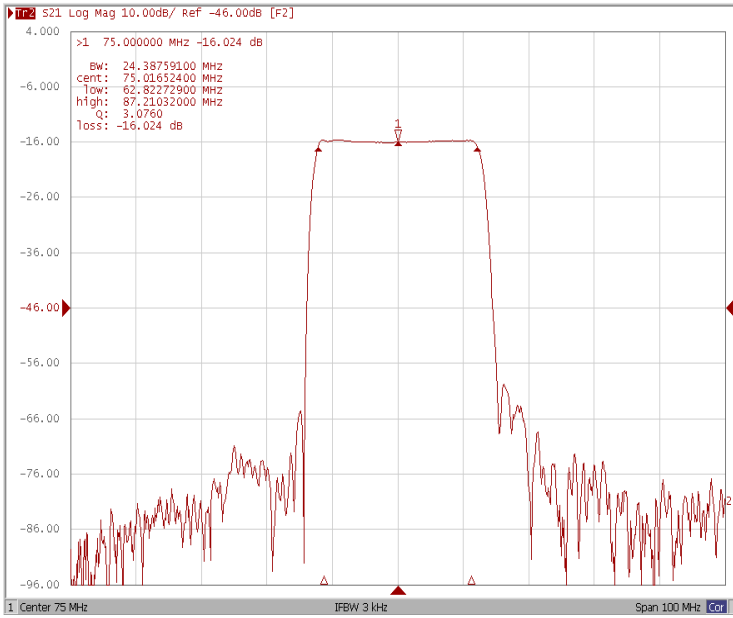
## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	75.0	-
Insertion Loss at Fo	dB	-	16.00	18.00
Temperature Coefficient	ppm/°C	-	-86	-
Amplitude Ripple within fo ±11.2MHz	dB <sub>p-p</sub>	-	0.45	0.80
Group Delay Variation within fo ±11.2 MHz	nsec	-	26	35
Absolute Delay at Fo	µsec	-	0.95	-
Bandwidth at -1.0 dB	MHz	23.0	24.35	-
Bandwidth at -3.0 dB	MHz	-	25.15	-
Bandwidth at -40.0 dB	MHz	-	29.10	30.3
Ultimate Attenuation		-	45	-

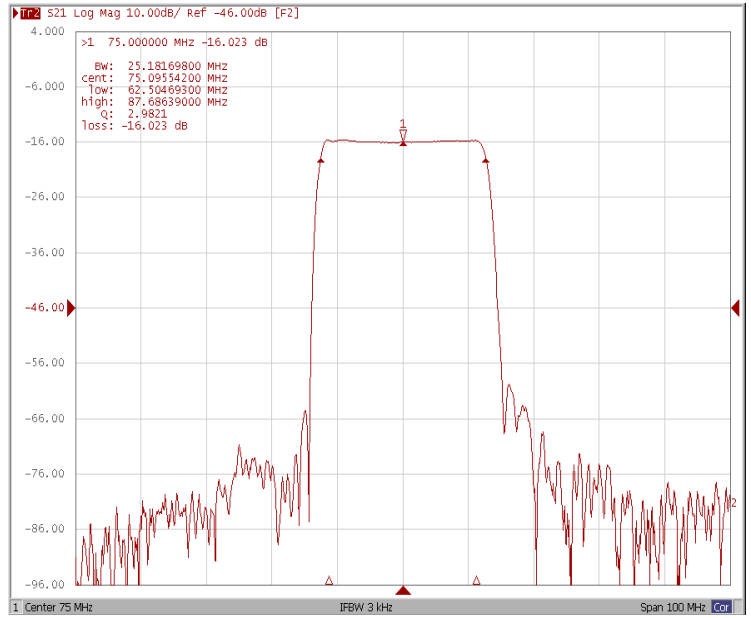


## Frequency Response

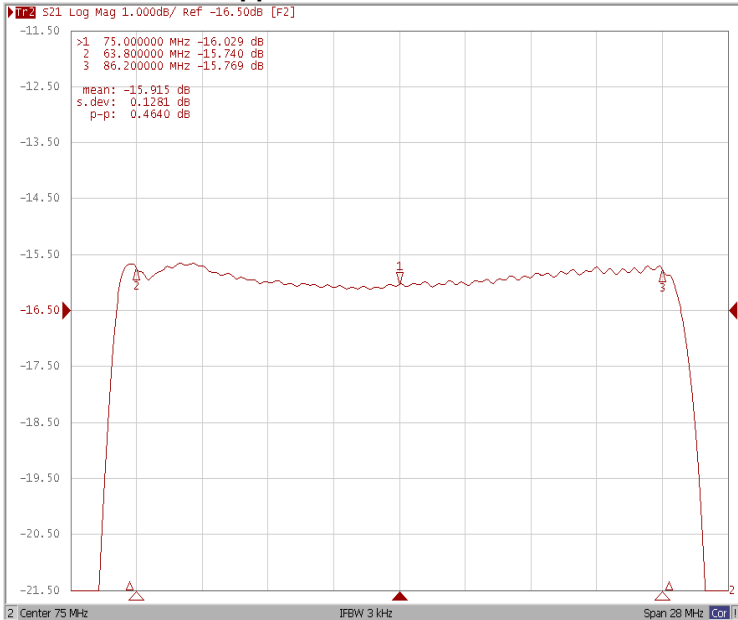
Bandwidth at -1.0 dB



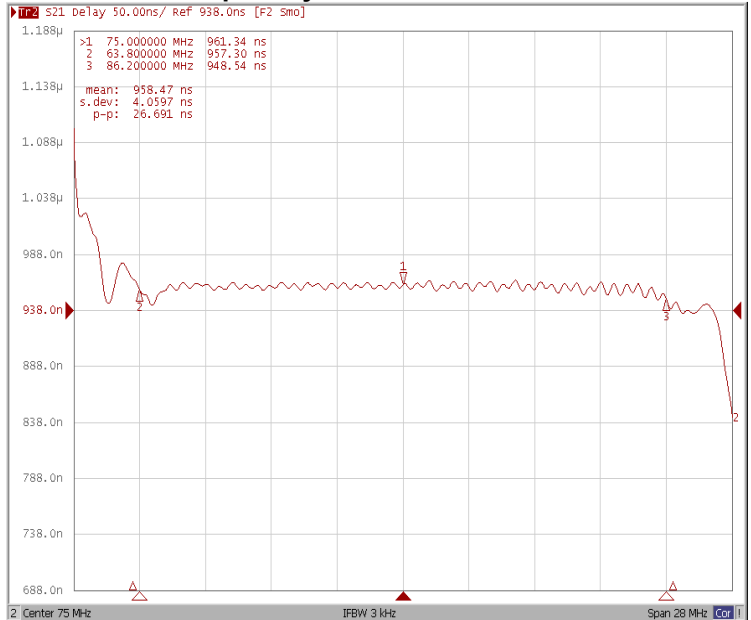
Bandwidth at -3.0 dB



Ripple Variation Fo±11.2MHz

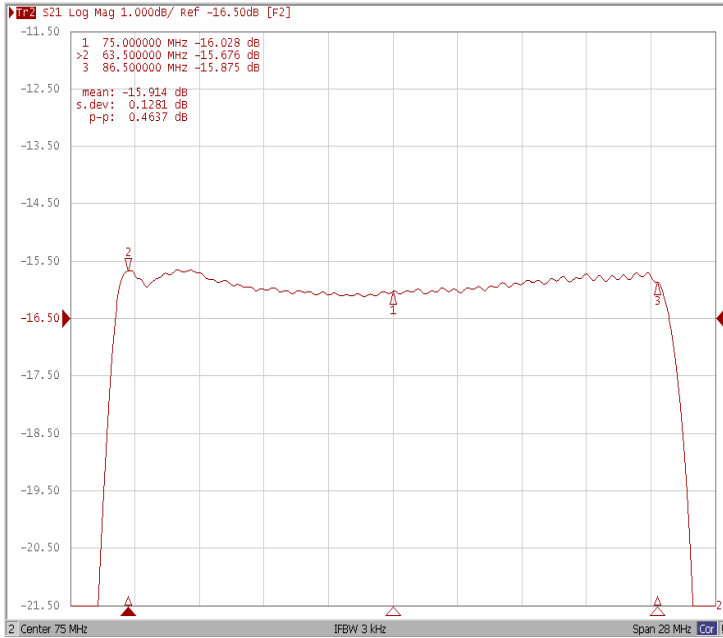


Group Delay Variation Fo±11.2MHz

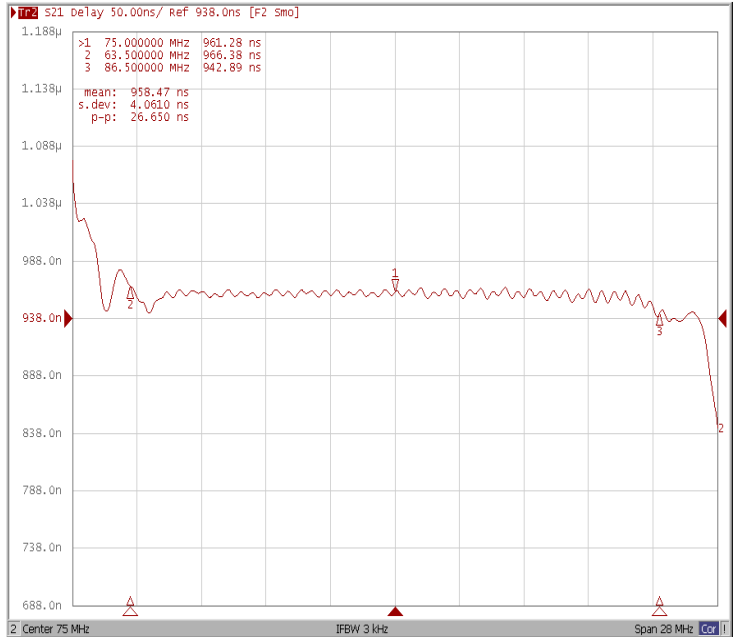




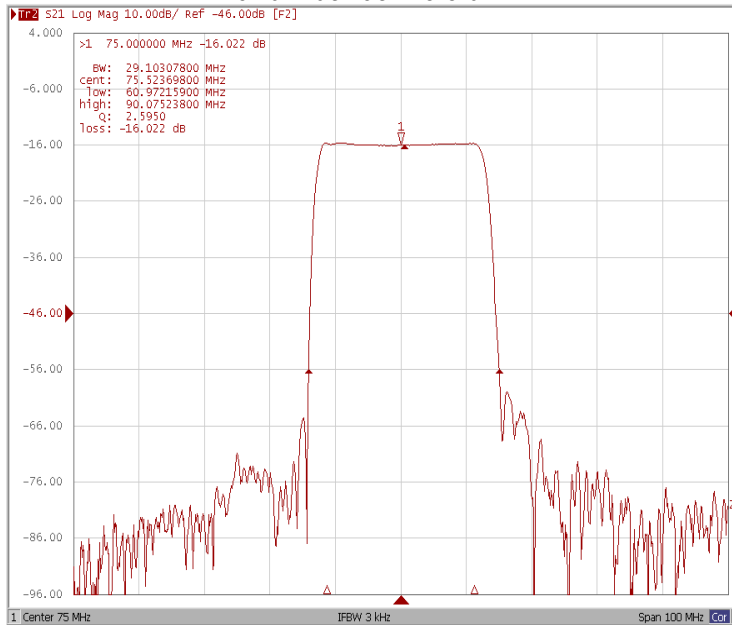
### Ripple Variation Fo±11.5MHz



### Group Delay Variation Fo±11.5MHz



### Bandwidth at -40.0 dB





### Smith Chart

