



REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL75.0M-26B	75.0 MHz IF SAW Filter 26.40 MHz Bandwidth

### Specification Contents

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

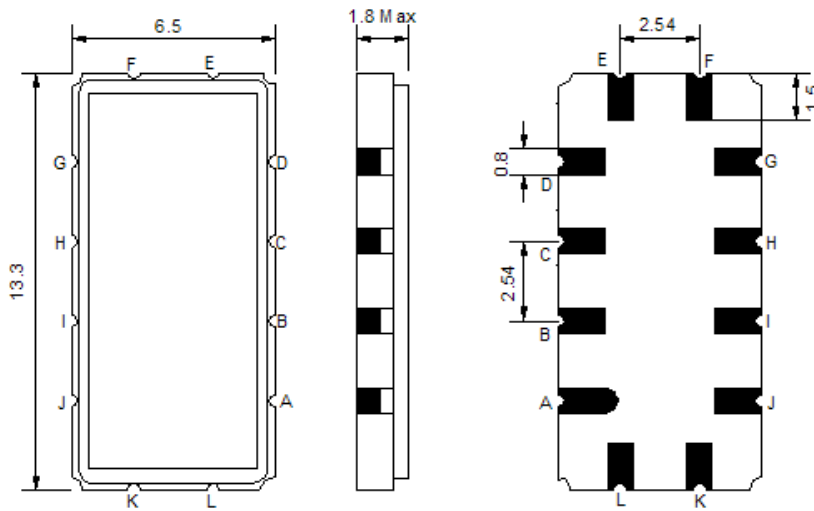
### Notes

- 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)



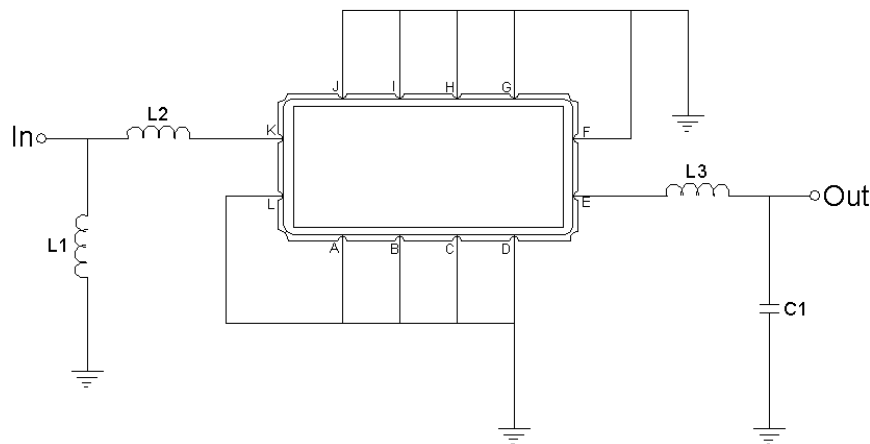


## Mechanical Dimensions (mm)



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

## Test Circuit



Test Fixture & Values	
Input	L1 = 56 nH, L2 = 5.6 nH
Output	L3 = 120 nH, C1 = 33pF
Source/Load Impedance	50 Ω



## Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-	25	-
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.

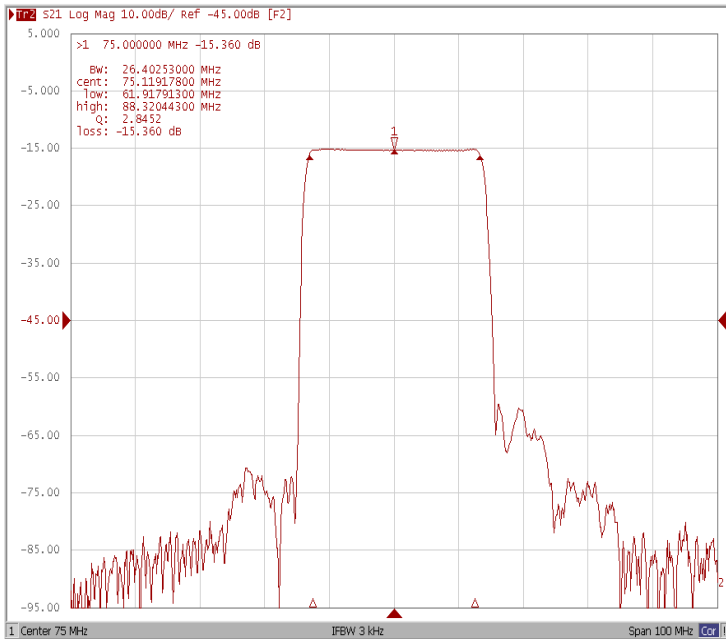
## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	75.1	-
Insertion Loss at Fo	dB	-	15.4	16.5
Group Delay Variation at Fo ± 12.48 MHz	nsec	-	29	60
Absolute Delay at Fo	usec	-	1.13	-
Passband Ripple Variation at Fo ± 12.48 MHz	dB	-	0.45	0.80
Bandwidth at -1dB	MHz	26.00	26.40	-
Bandwidth at -3dB	MHz	-	27.17	-
Bandwidth at -15dB	MHz	-	28.81	30.00
Relative Attenuation				
@59.5 MHz	dB	45	61	
@89.5MHz	dB	12	12.6	
Temperature Coefficient	ppm/°C	-	-86	-

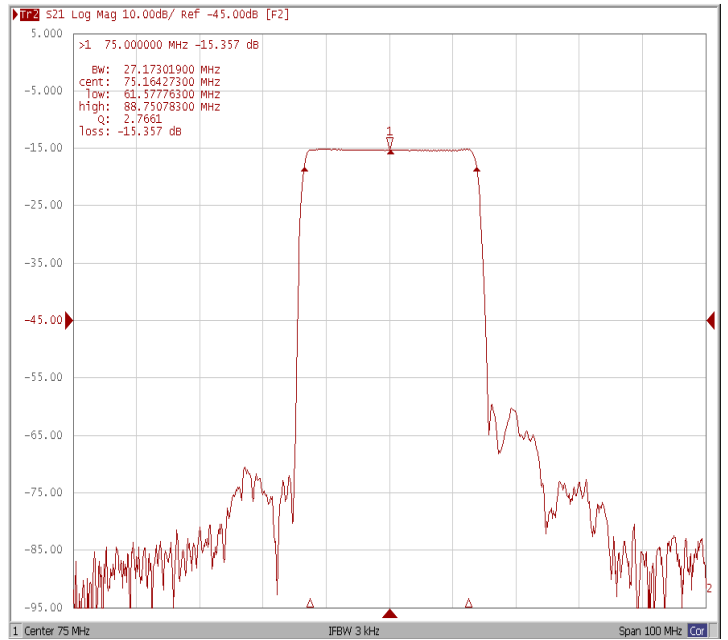


### Frequency Response

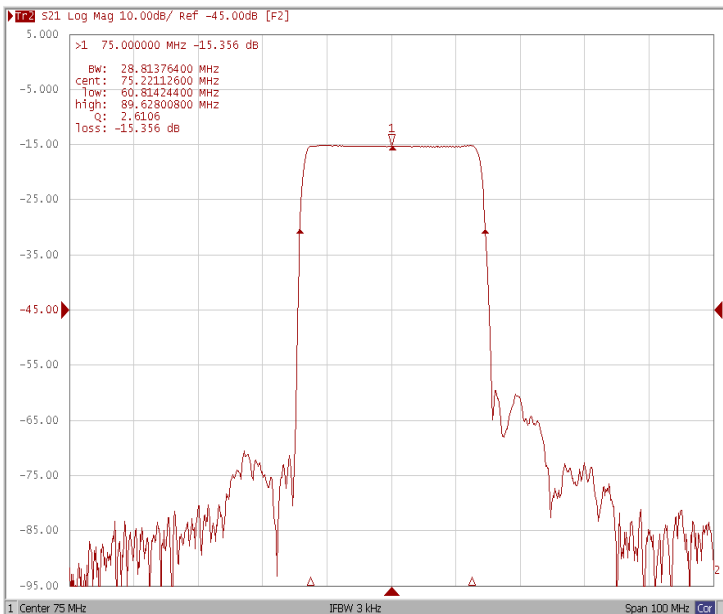
#### Bandwidth at -1.0 dB



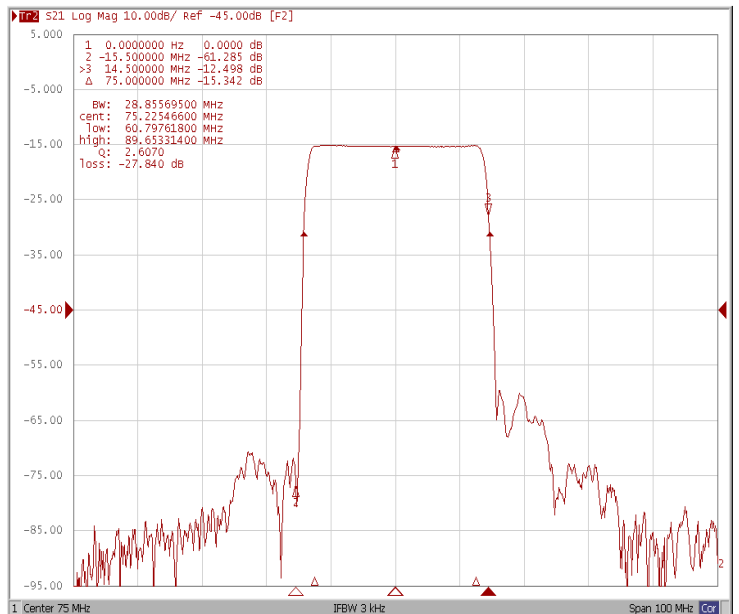
#### Bandwidth at -3.0 dB



#### Bandwidth at -15.0 dB

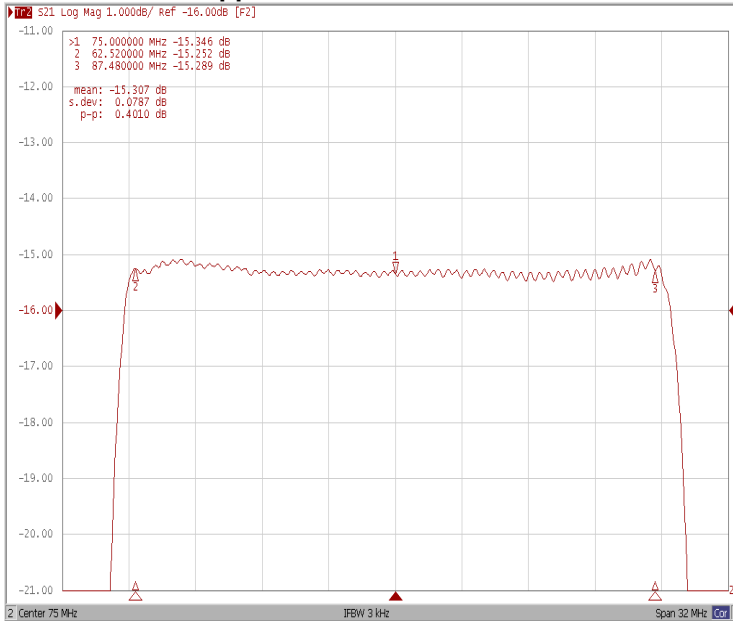


#### Relative Attenuation

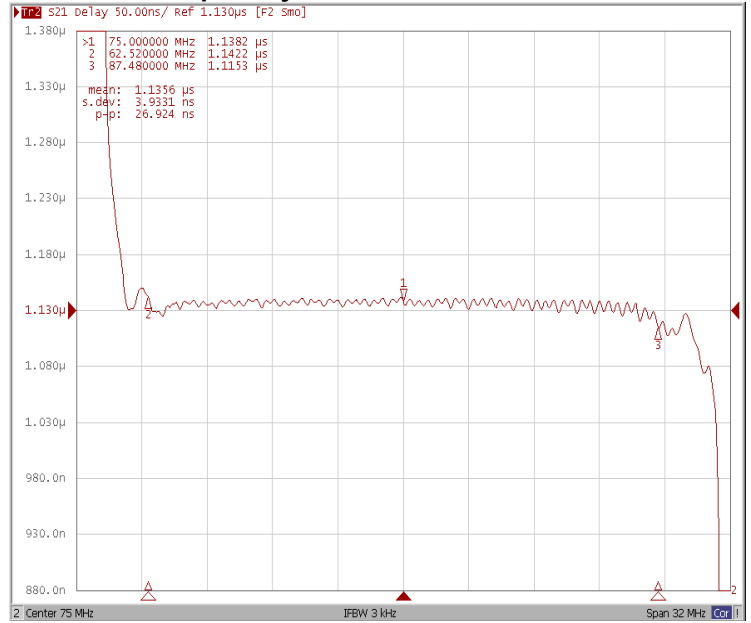




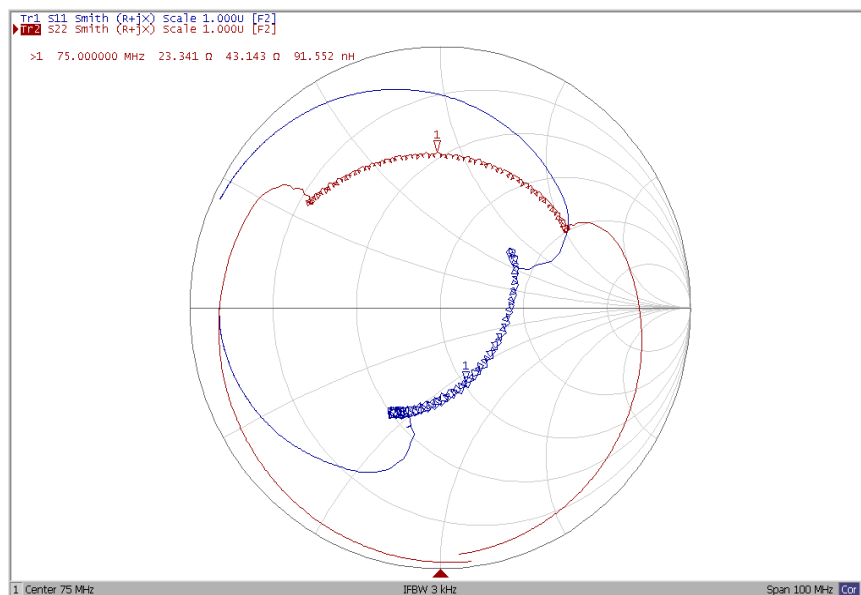
### Ripple Variation $F_o \pm 12.48\text{MHz}$



### Group Delay Variation $F_o \pm 12.48\text{MHz}$



### Smith Chart





### VSWR

