



REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL65.0M-16A	65.0MHz IF SAW Filter 16.30 MHz Bandwidth

### Specification Contents

- o Mechanical Dimensions
- o Test Circuit
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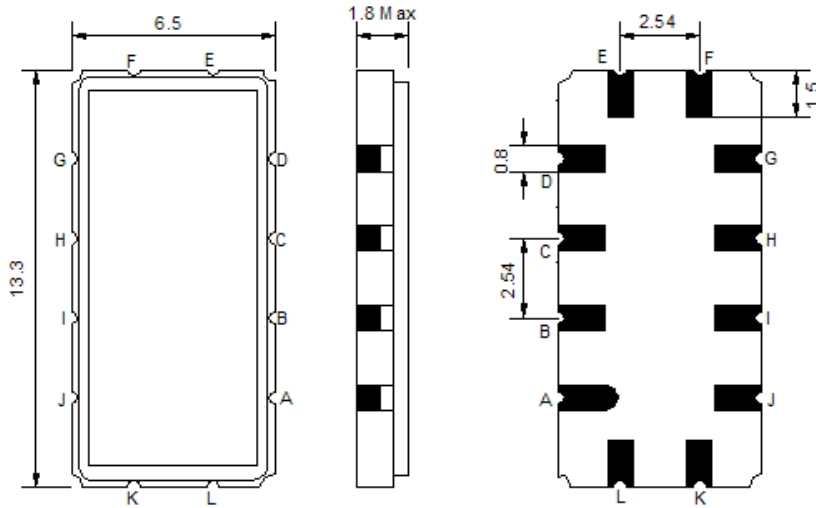
### Notes

- 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)



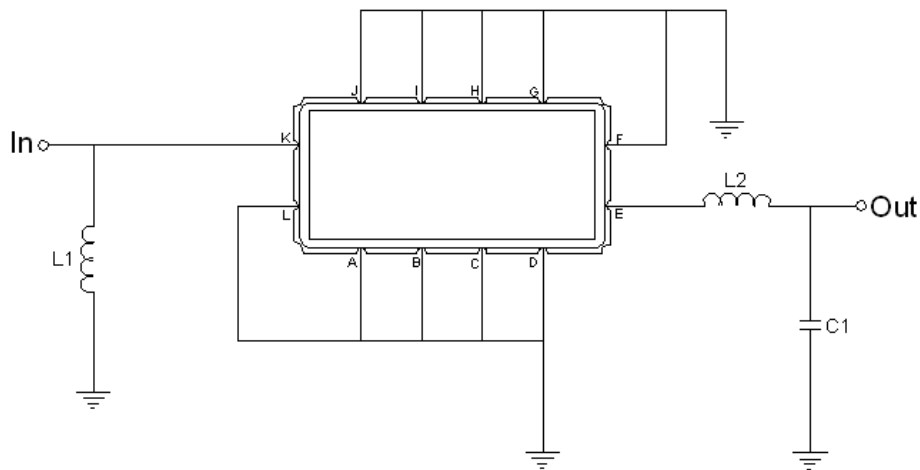


## Mechanical Dimensions (mm)



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

## Test Circuit



Test Fixture & Values	
Input	L1=150 nH
Output	L2=150 nH, C1=27pF
Source/Load Impedance	50 Ω



## Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-5	-	55
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.

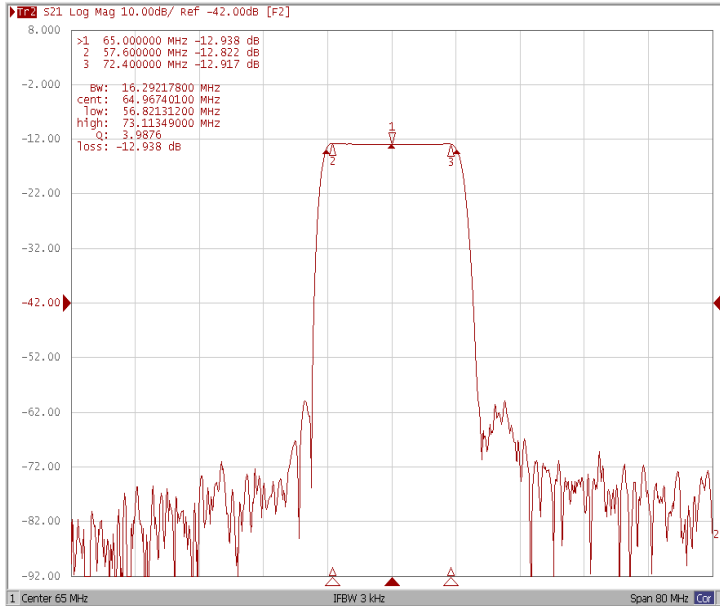
## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	65.0	-
Insertion Loss at Fo	dB	-	12.0	15.0
Group Delay Variation (Fo±7.4MHz)	ns	-	22	50
Absolute Delay Time at Fo	us	-	1.0	-
Temperature Coefficient	ppm/°C	-	-86	-
Amplitude Ripple (Fo±7.4MHz)	dB	-	0.21	0.80
Bandwidth at -1dB	MHz	14.80	16.30	-
Bandwidth at -3dB	MHz	-	17.07	-
Bandwidth at -40dB	MHz	-	20.30	21.00
Ultimate Rejection	dB	40	47	-

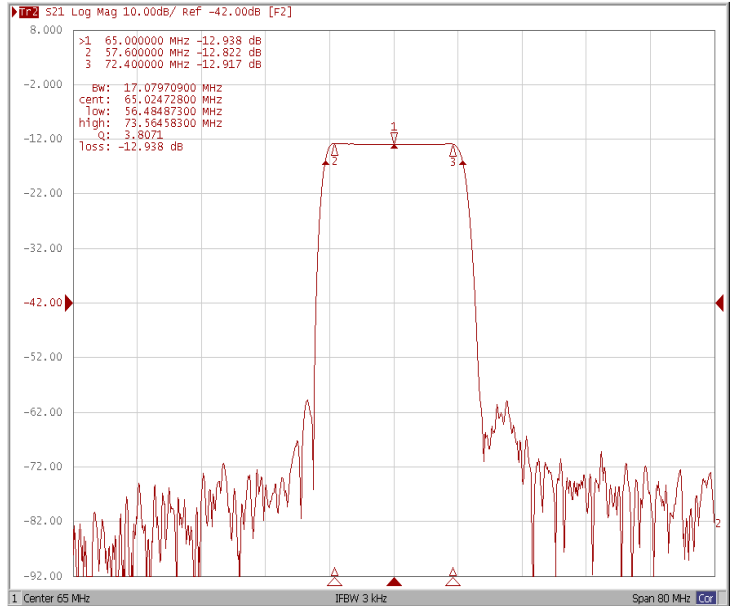


## Frequency Response

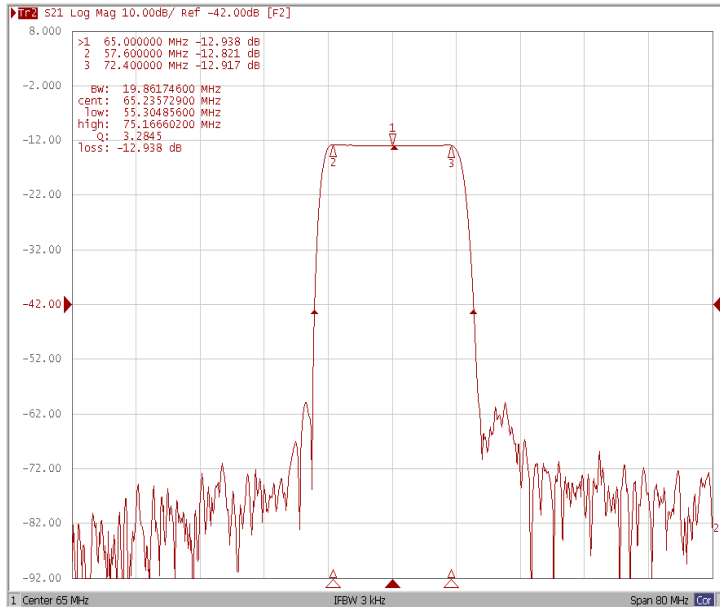
### Bandwidth at -1.0 dB



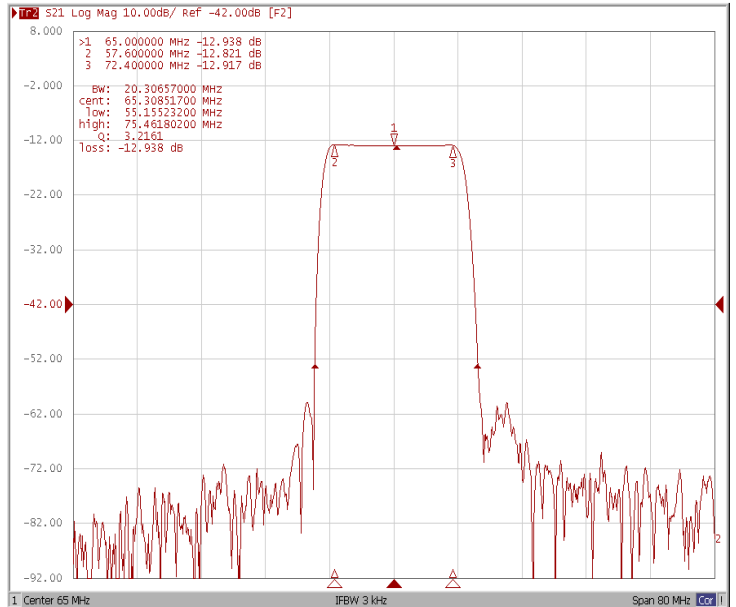
### Bandwidth at -3.0 dB



### Bandwidth at -30.0 dB

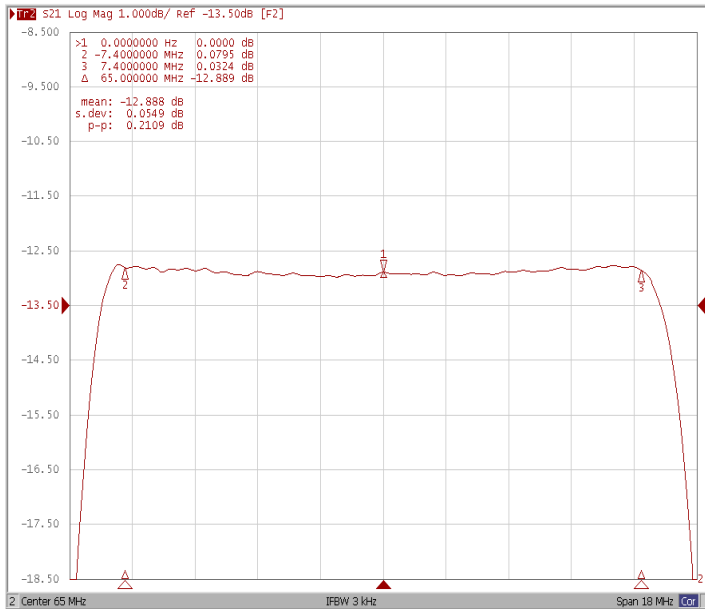


### Bandwidth at -40.0 dB

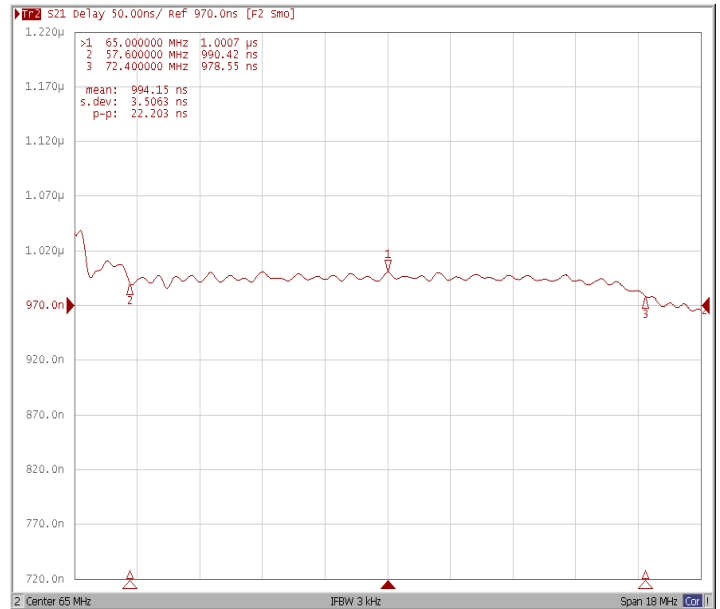




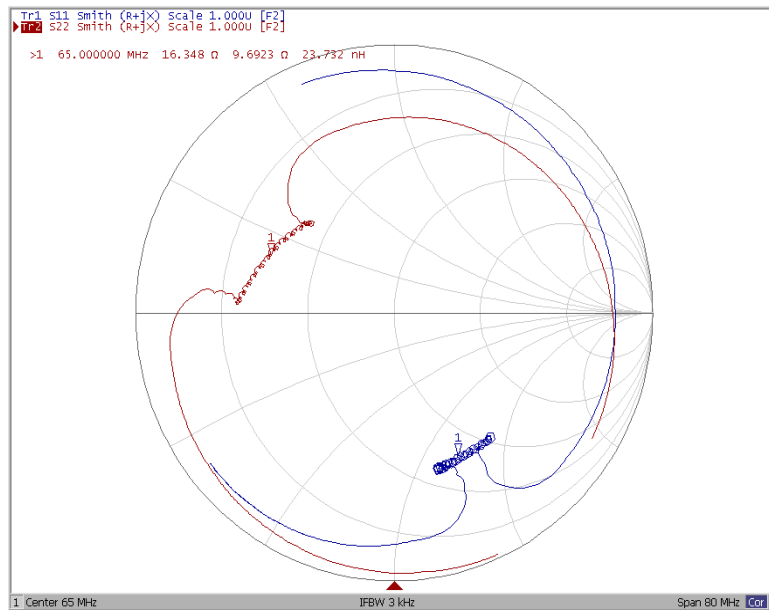
### Ripple Variation Fo±7.4MHz



### Group Delay Variation Fo±7.4MHz



### Smith Chart





### VSWR

