



# PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL62.5M-16B	62.5MHz IF SAW Filter 16.20MHz Bandwidth

## Specification Contents

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



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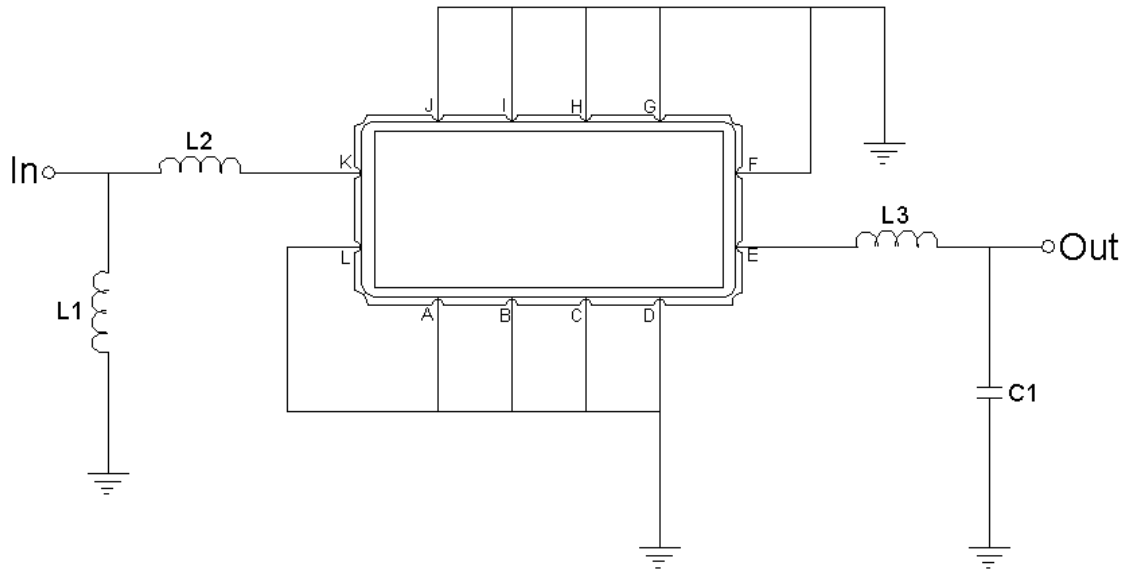


## Mechanical Dimensions (mm)



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

## Test Circuit



Test Fixture & Values	
Input	L1=120nH, L2=8.2nH
Output	L3=150nH, C1=20pF
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) <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.

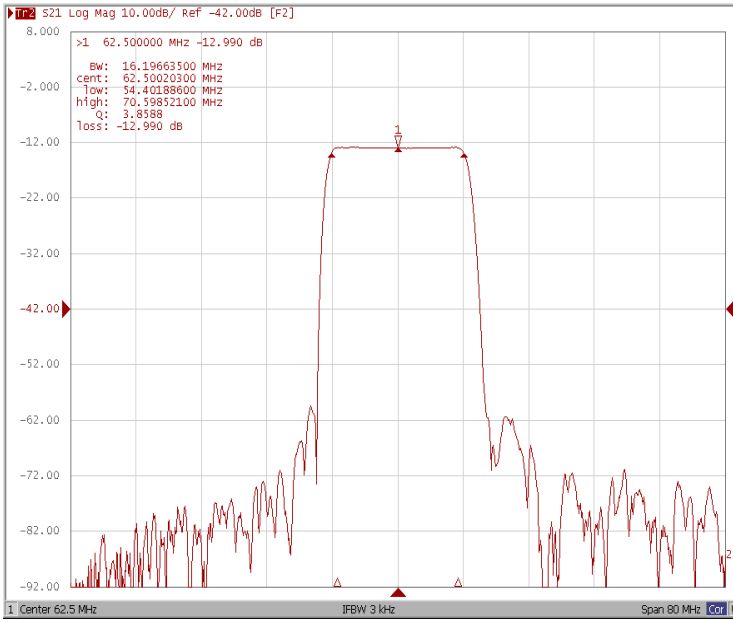
## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	62.5	-
Insertion Loss at Fo	dB	-	13.0	15.0
Temperature Coefficient	ppm/°C	-	-86	-
Amplitude Ripple within fo ±7.4 MHz	dB <sub>p-p</sub>	-	0.30	0.80
Group Delay Variation within fo ±7.4 MHz	nsec	-	30	60
Absolute Delay at Fo	µsec	-	1.04	-
Bandwidth at -1.0 dB	MHz	15.80	16.20	-
Bandwidth at -3.0 dB	MHz	-	16.98	-
Bandwidth at -40.0 dB	MHz	-	20.10	20.60
Relative Attenuation:				
Lower Sidelobe	dB	45	48	-
Upper Sidelobe	dB	45	48	-

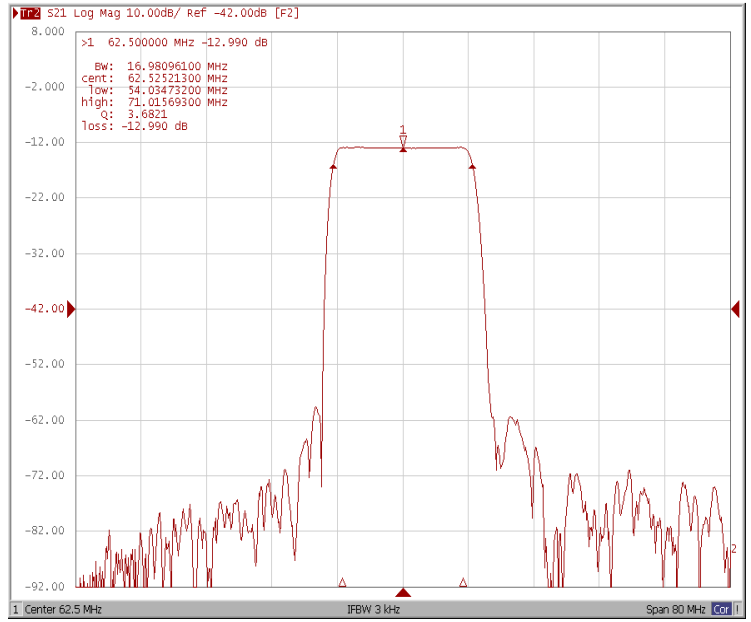


### Frequency Response

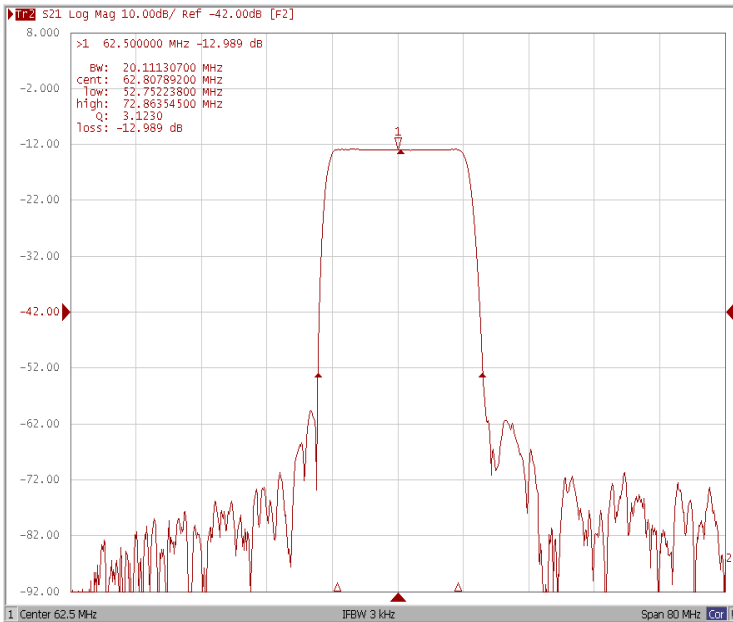
#### Bandwidth at -1.0 dB



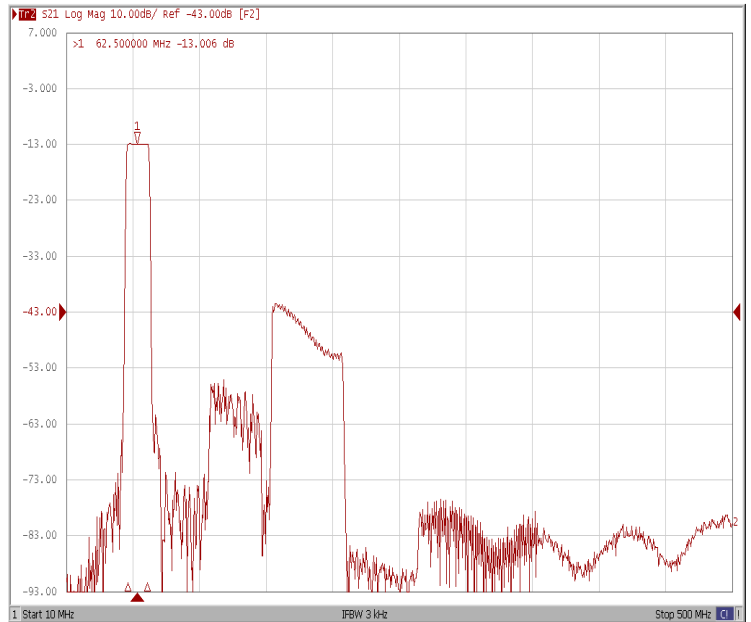
#### Bandwidth at -3.0 dB



#### Bandwidth at -40.0 dB

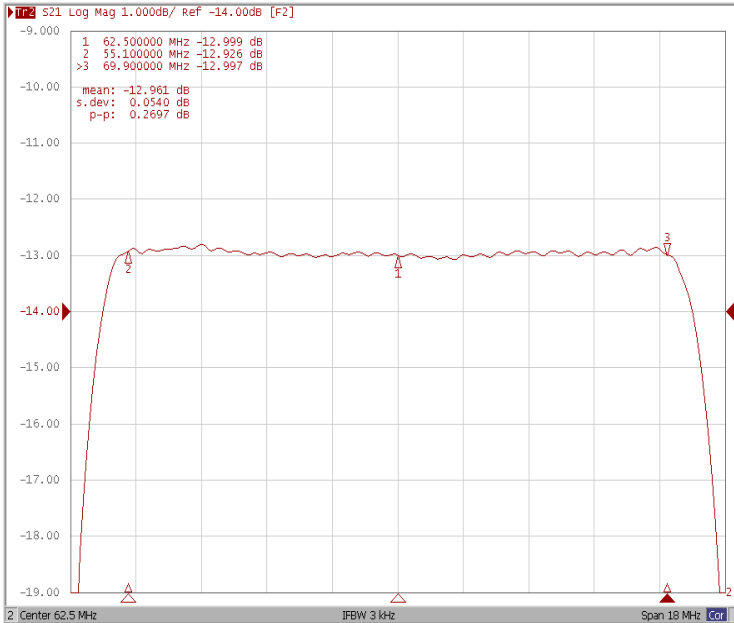


#### Wide-Band

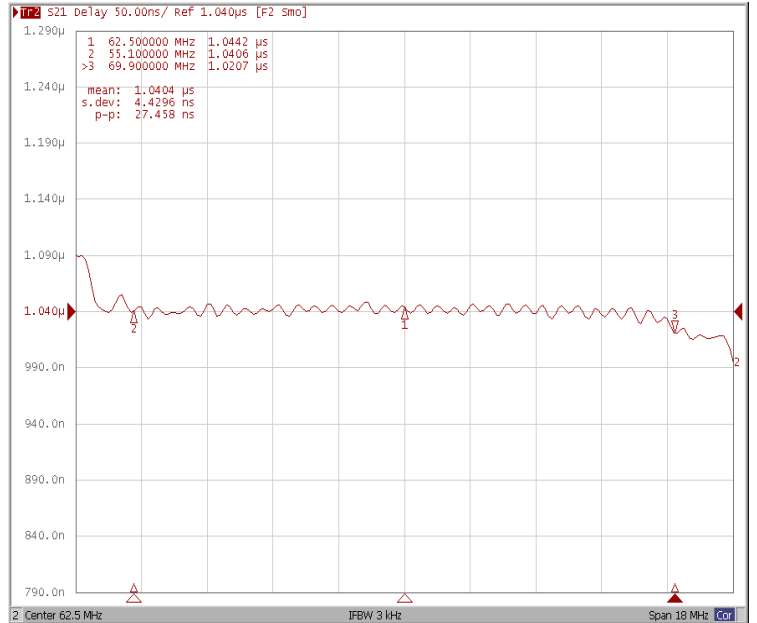




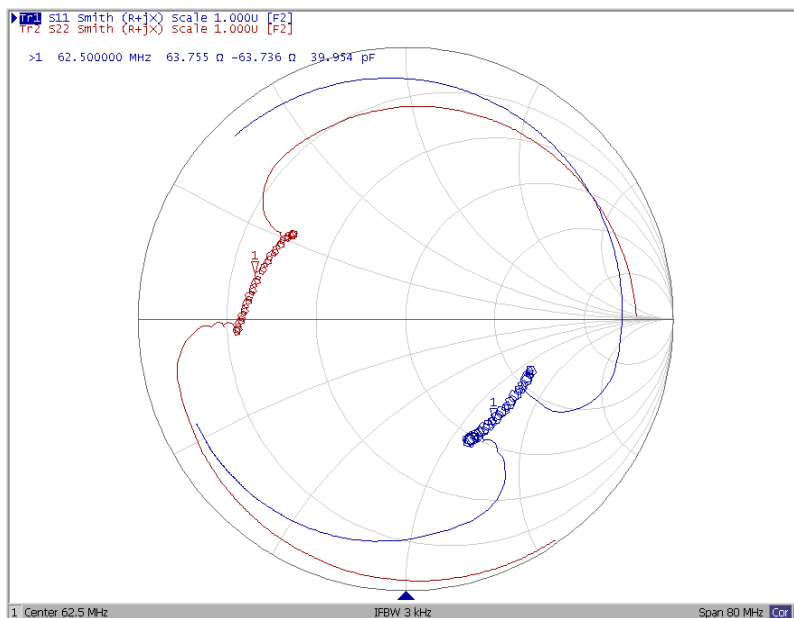
### Ripple Variation Fo±7.4MHz



### Group Delay Variation Fo±7.4MHz



### Smith Chart





### VSWR

