



REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
821-IF65.0M-29A	65.0 MHz IF SAW Filter 29.55 MHz Bandwidth

### Specification Contents

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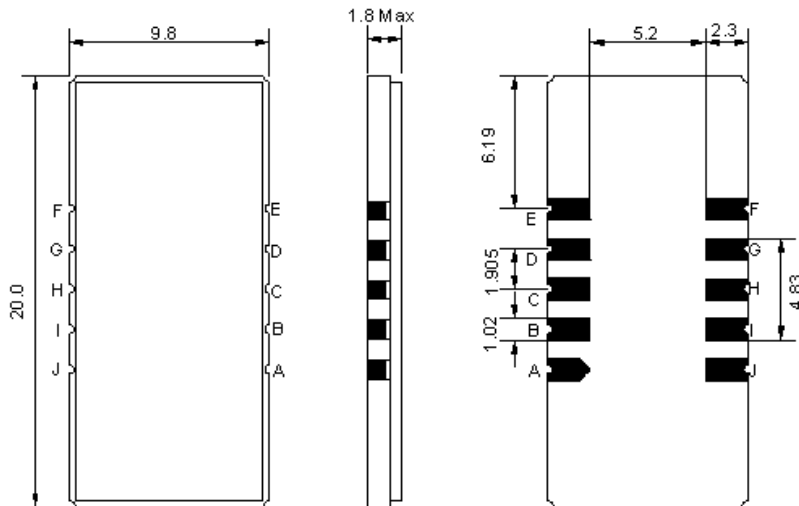
### Notes

- 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)



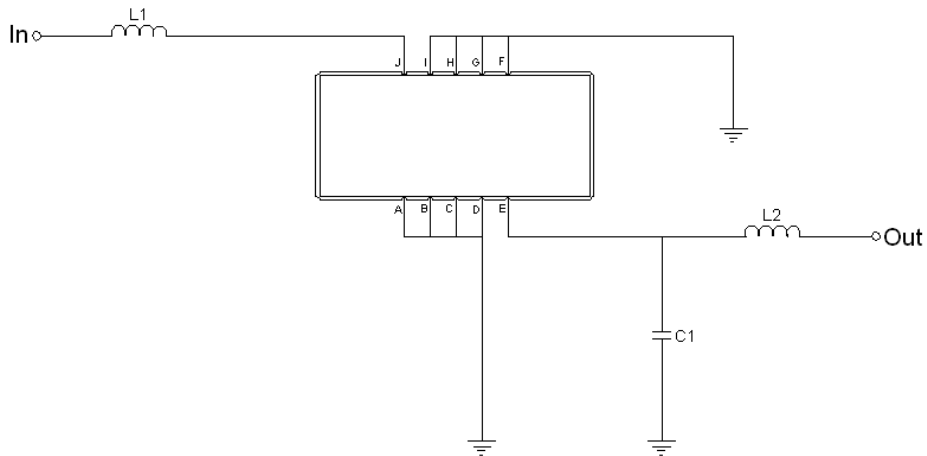


## Mechanical Dimensions (mm)



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

## Test Circuit



Test Fixture & Values	
Input	L1 = 150 nH
Output	L2 = 220 nH, C1 = 5 pF
Source/Load Impedance	50 Ω



## Maximum Ratings

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

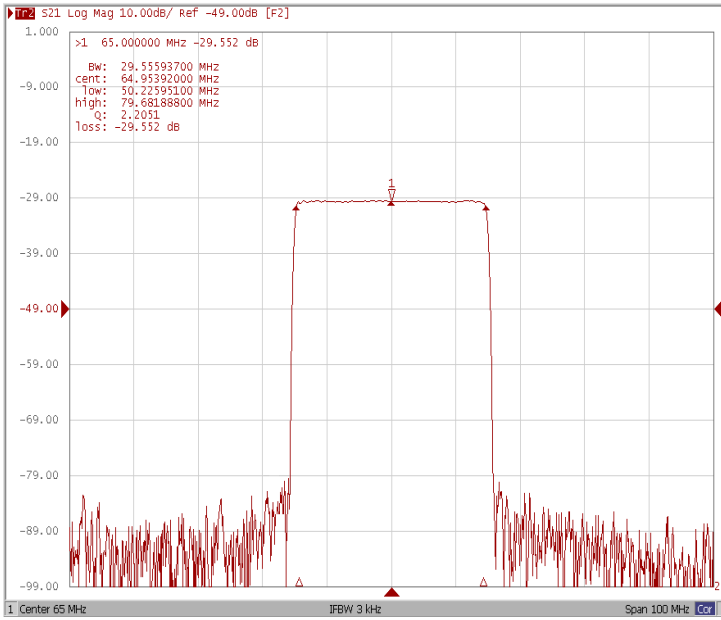
## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	65.0	-
Insertion Loss at Fo	dB	-	29.5	-
Group Delay Variation at Fo ± 14.32 MHz	nsec	-	32	100
Absolute Delay at Fo	usec	-	2.47	-
Passband Ripple Variation at Fo ± 14.32 MHz	dB	-	0.57	1.00
Bandwidth at -1dB	MHz	29.30	29.55	-
Bandwidth at -3dB	MHz	-	29.85	-
Bandwidth at -40dB	MHz	-	31.38	31.45
Ultimate Rejection	dB	46	50	-
Temperature Coefficient	ppm/°C	-	-72	-

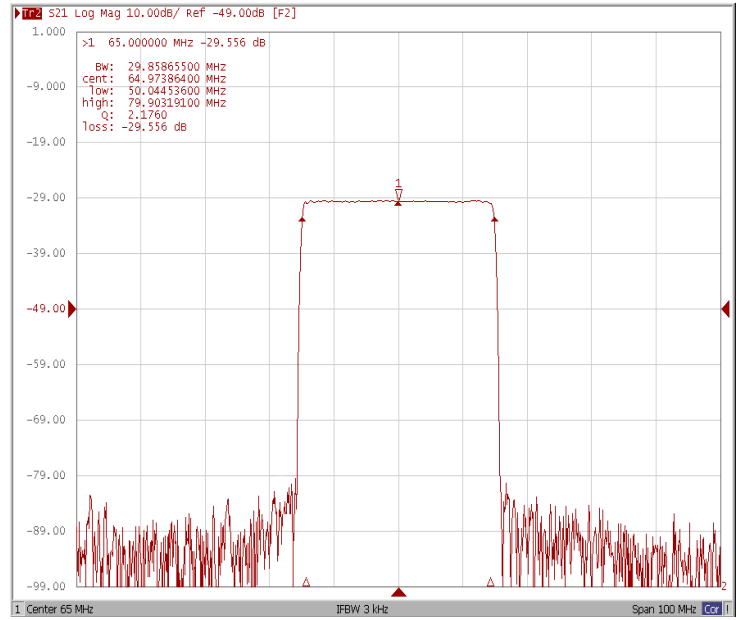


## Frequency Response

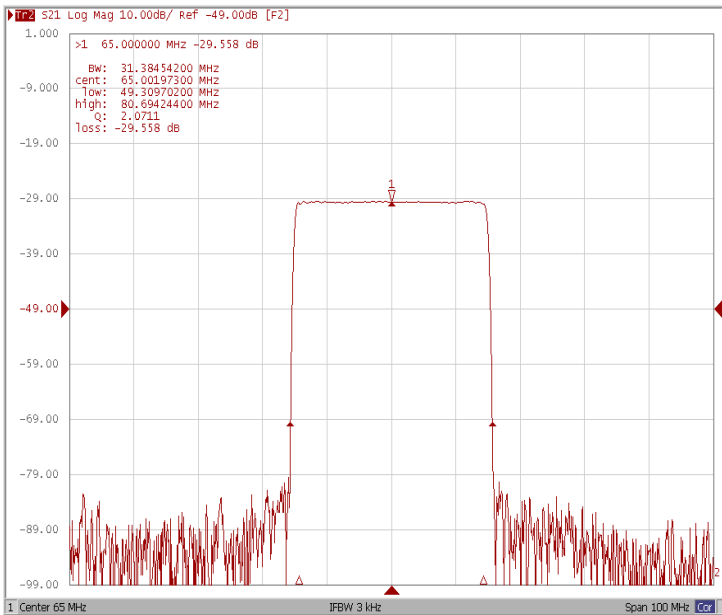
### Bandwidth at -1.0 dB



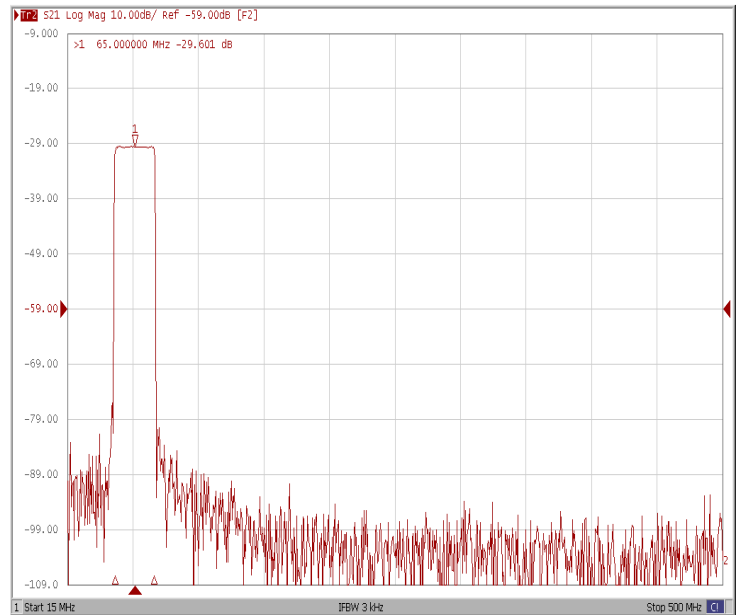
### Bandwidth at -3.0 dB



### Bandwidth at -40.0 dB

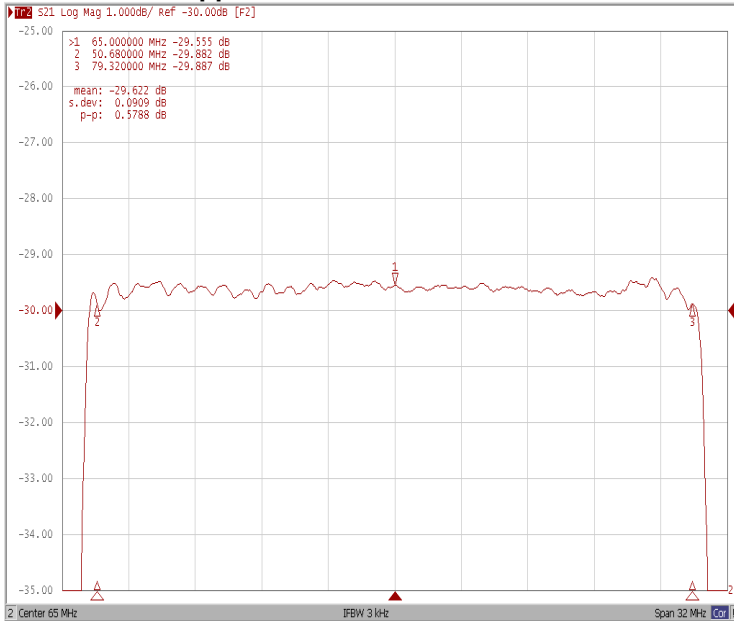


### Wide-Band

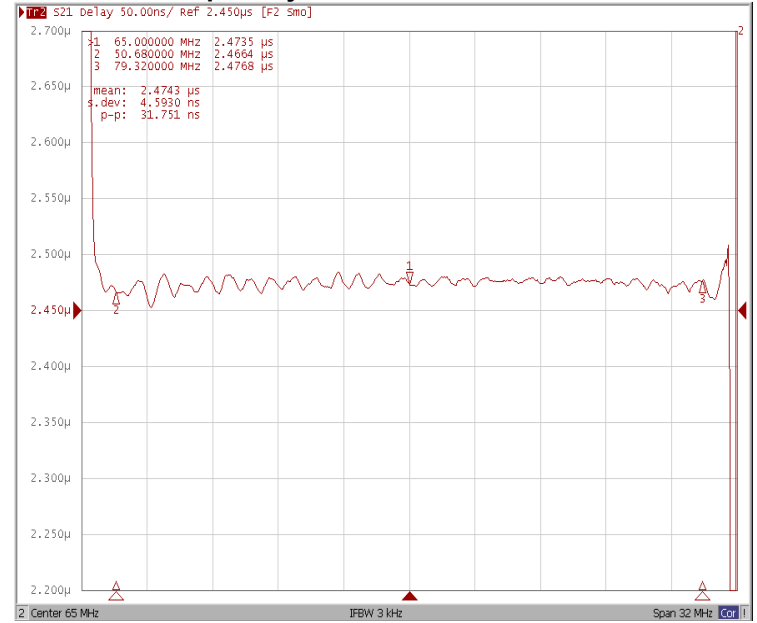




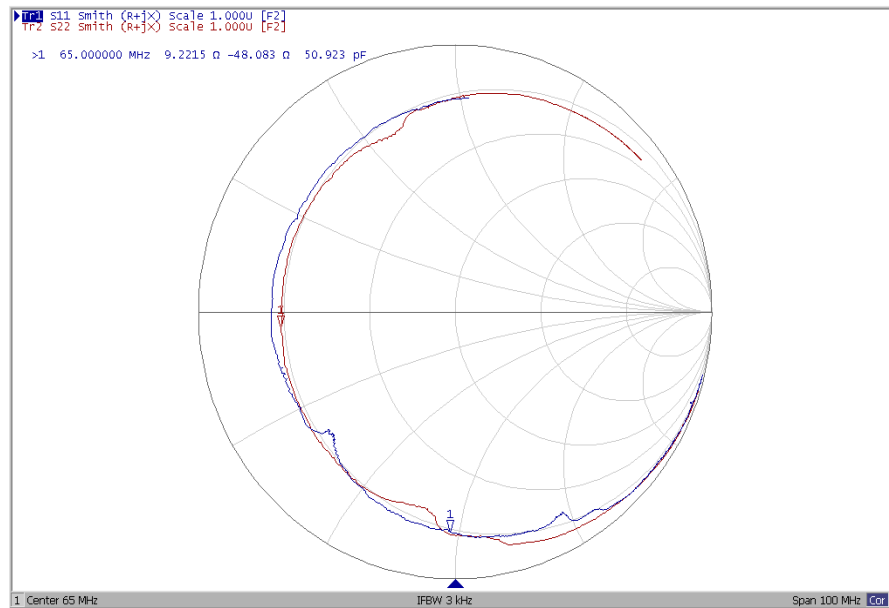
### Ripple Variation Fo±14.32 MHz



### Group Delay Variation Fo±14.32MHz



### Smith Chart





### VSWR

