



REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-IF264.0M-05A	264.0MHz IF SAW Filter 5.70MHz Bandwidth

### Specification Contents

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

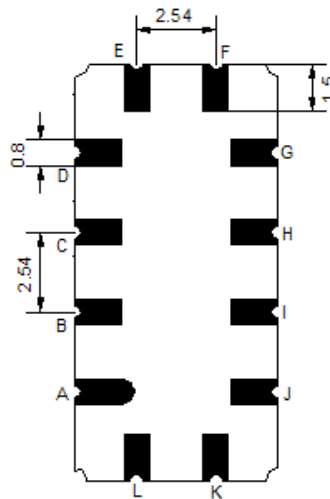
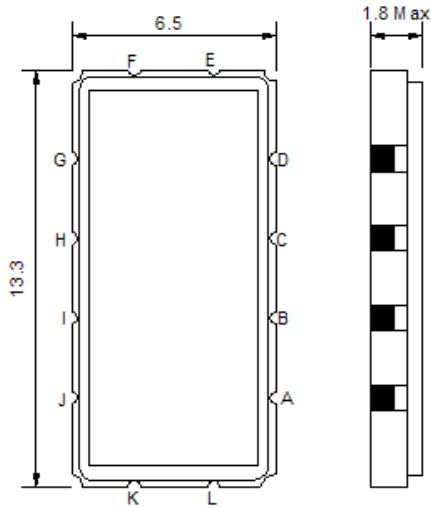
### Notes

- 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)



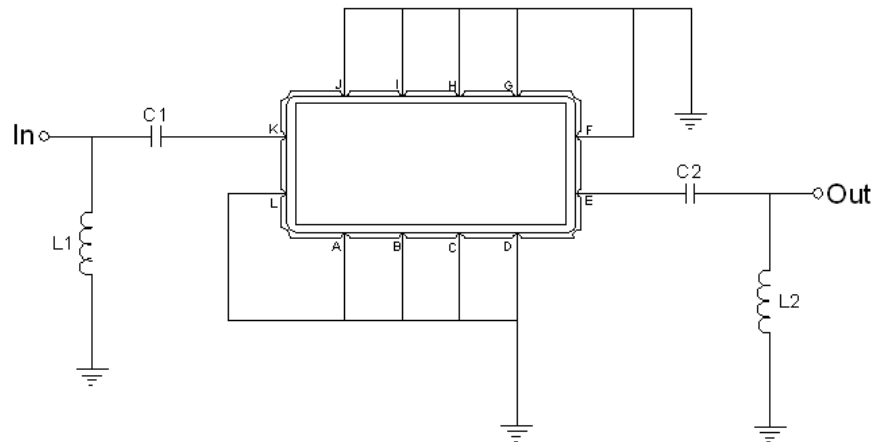


## Mechanical Dimensions (mm)



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

## Test Circuit



Test Fixture & Values	
Input	L1 = 10 nH, C1 = 200 pF
Output	L2 = 8.2 nH, C2 = 150 pF
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	-	264.0	-
Insertion Loss at Fo	dB	-	24.00	25.50
Group Delay Variation at Fo±2.5MHz	ns	-	59	90
Absolute Delay at Fo	us	-	1.76	-
Amplitude Ripple at Fo±2.5MHz	dB	-	0.30	0.80
Bandwidth at -1dB	MHz	5.40	5.70	-
Bandwidth at -3dB	MHz	-	6.05	-
Bandwidth at -40dB	MHz	-	7.37	7.60
Relative Attenuation				
Fo±4.0MHz	dB	45	54	-
Lower Sidelobe	dB	47	52	-
Upper Sidelobe	dB	47	52	-
Temperature Coefficient	ppm/°C	-	-0.03	-



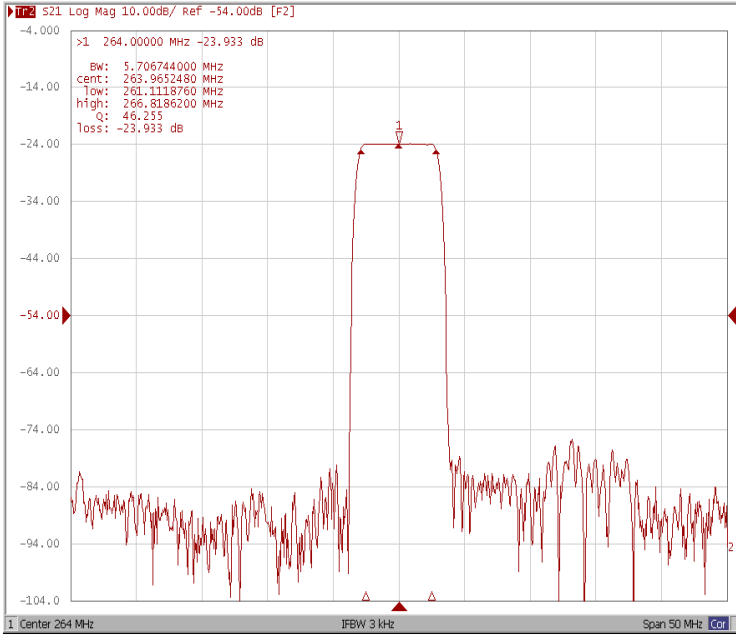
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# Oscilent Part Number 813-IF264.0M-05A

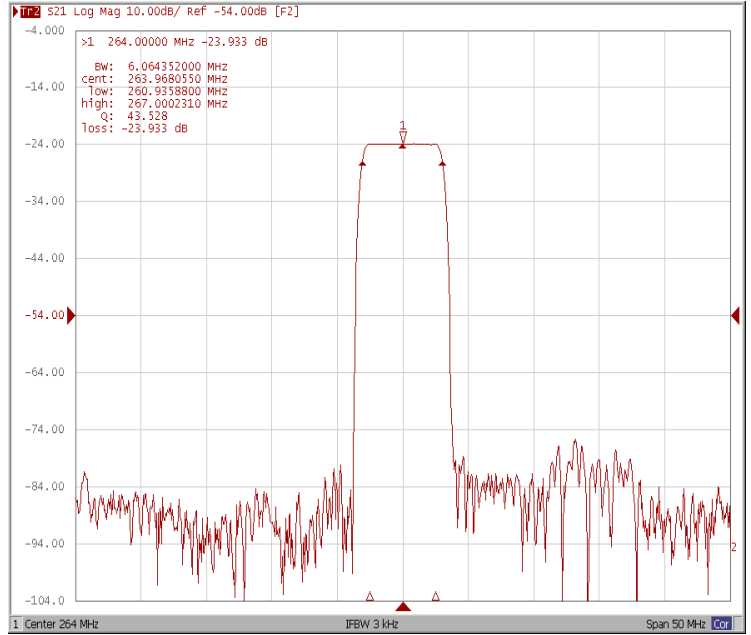
264.0MHz IF SAW Filter 5.70MHz Bandwidth

## Frequency Response

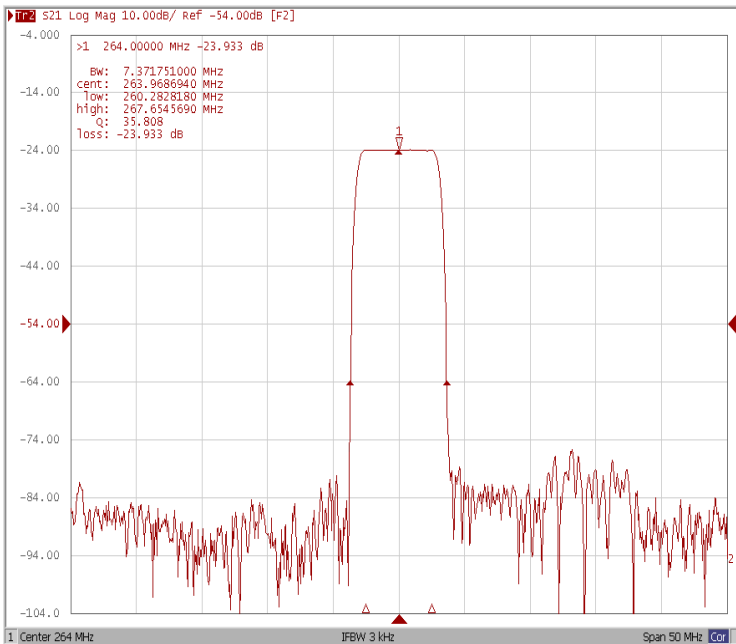
### Bandwidth at -1.0 dB



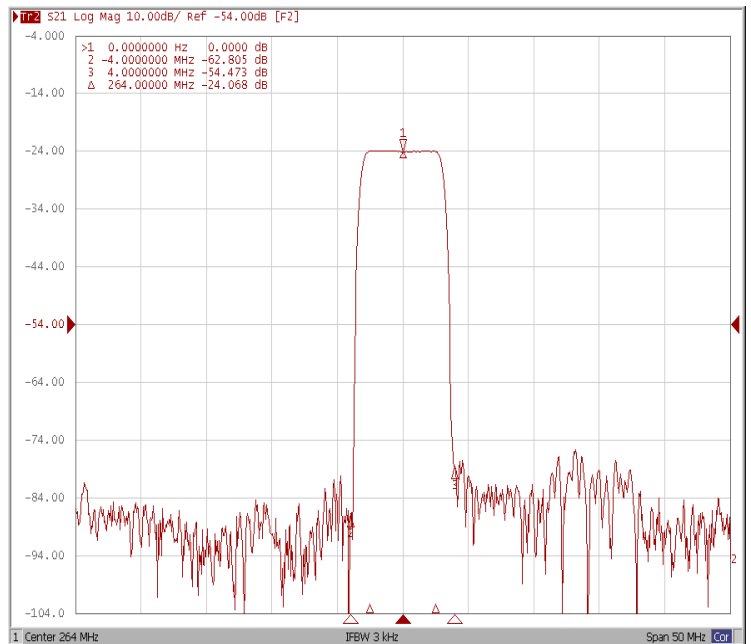
### Bandwidth at -3.0 dB



### Bandwidth at -40.0 dB

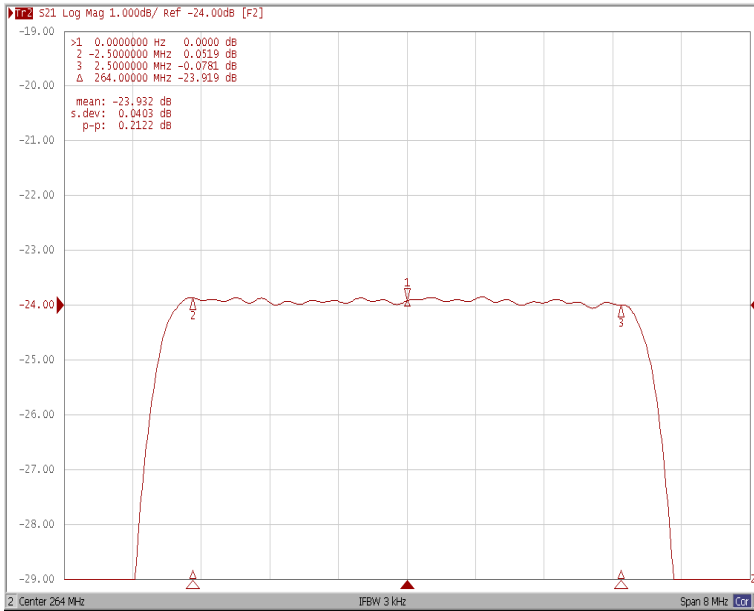


### Relative Attenuation at $F_o \pm 4.0$ MHz

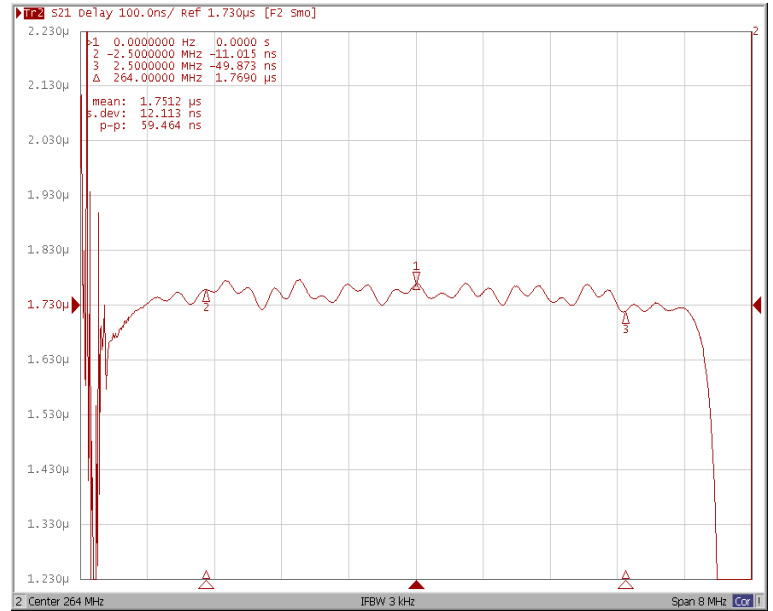




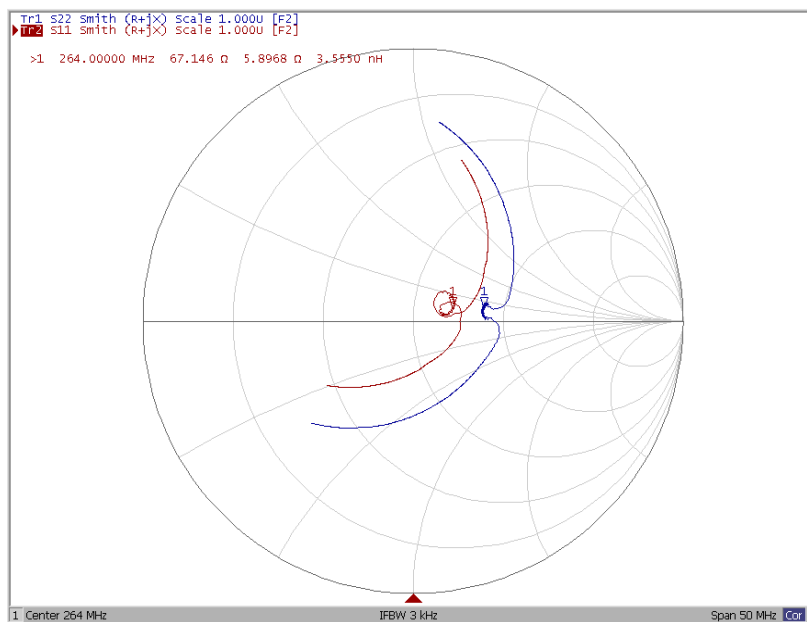
### Ripple Variation at Fo±2.5MHz



### Group Delay Variation at Fo±2.5MHz



### Smith Chart





### VSWR

