



# PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
821-IF75.0M-26B	75.0 MHz IF SAW Filter 26.16 MHz Bandwidth

## Specification Contents

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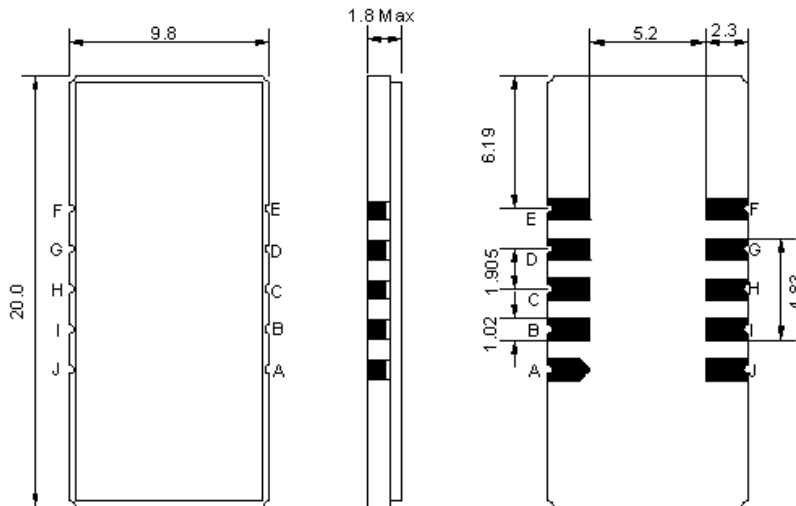
## Notes

- 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)



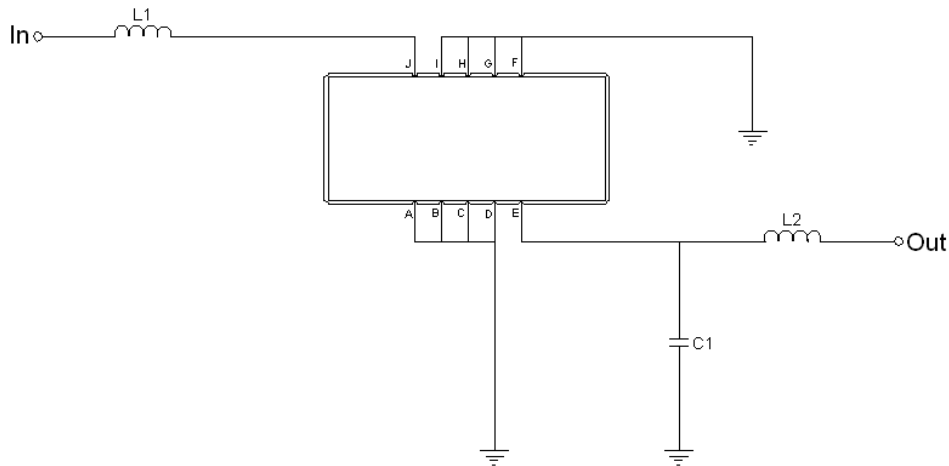


## Mechanical Dimensions (mm)



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

## Test Circuit



Test Fixture & Values	
Input	L1 = 120 nH
Output	L2 = 120 nH, C1=3.3pF
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.

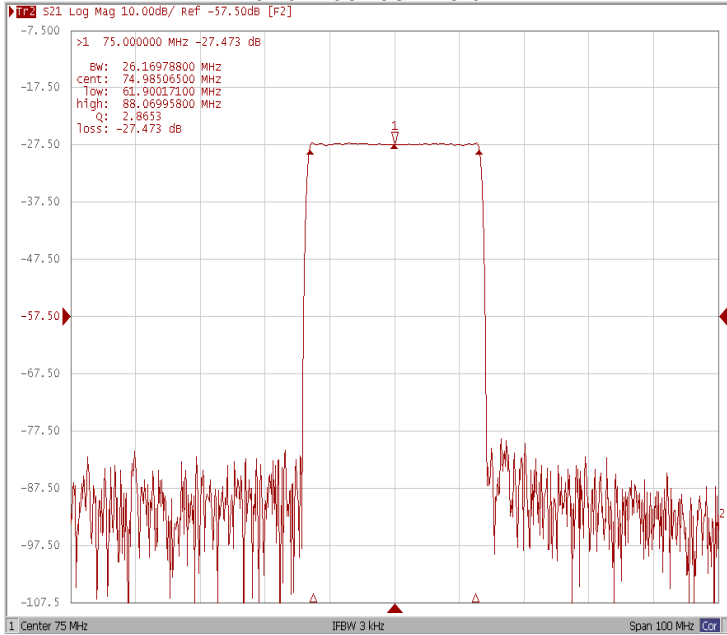
## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	75.0	-
Insertion Loss at Fo	dB	-	27.5	29.0
Group Delay Variation (Fo±12.48MHz)	nsec	-	25	50
Absolute Delay at Fo	usec	-	1.98	-
Passband Ripple Variation (Fo±12.48MHz)	dB	-	0.42	0.90
Bandwidth at -1dB	MHz	25.9	26.16	-
Bandwidth at -10dB	MHz	-	27.16	-
Bandwidth at -20dB	MHz	-	27.63	-
Bandwidth at -40dB	MHz	-	28.12	28.30
Ultimate Rejection	dB	50	52	-
Temperature Coefficient	ppm/°C	-	-72	-

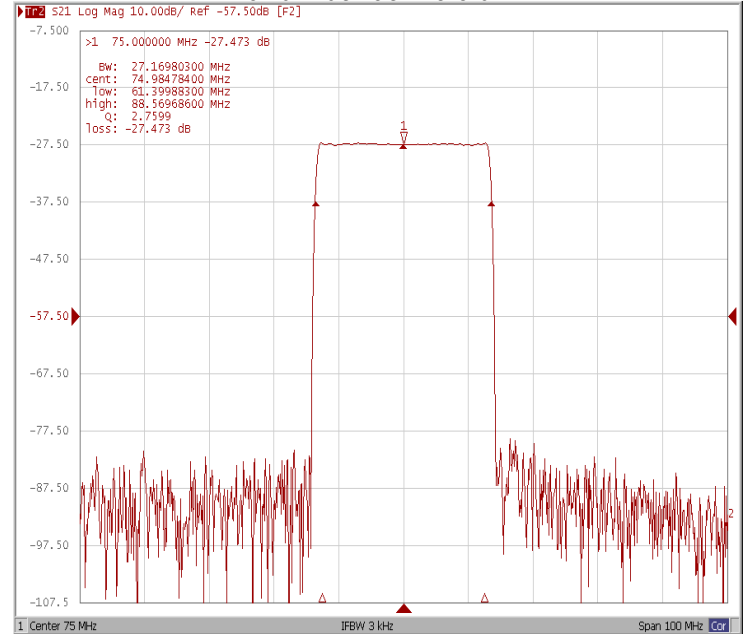


### Frequency Response

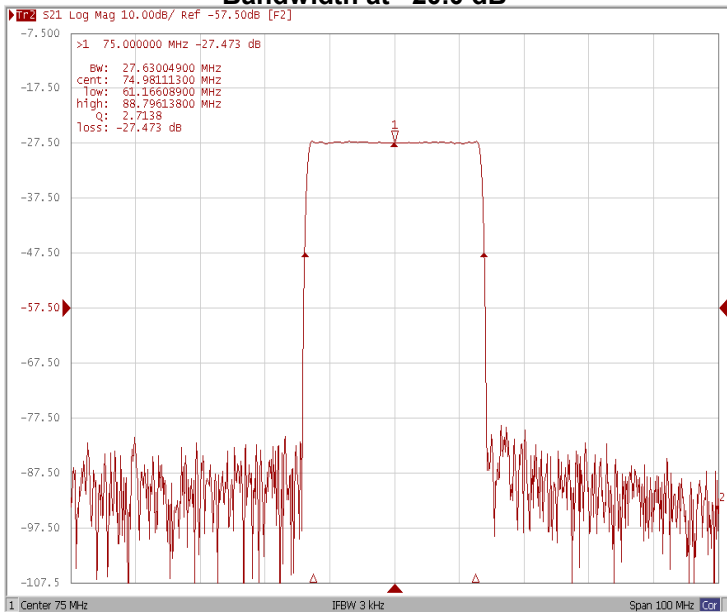
#### Bandwidth at -1.0 dB



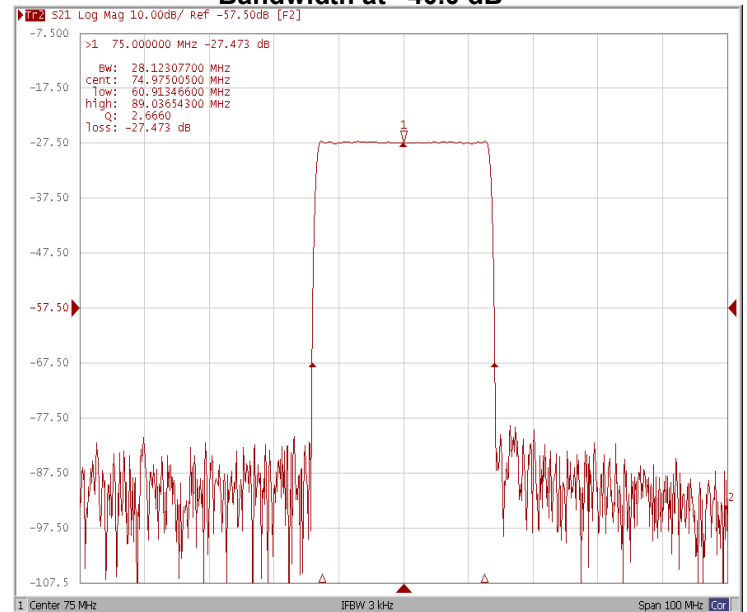
#### Bandwidth at -10.0 dB



#### Bandwidth at -20.0 dB

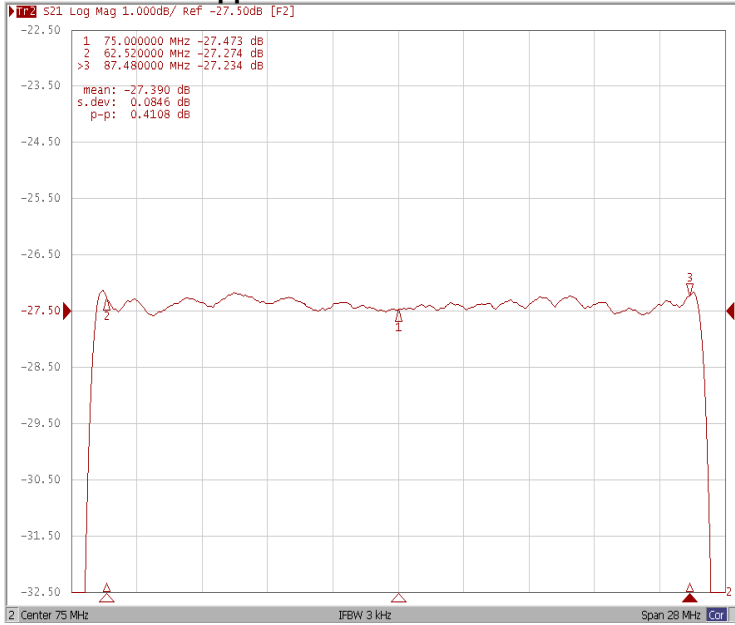


#### Bandwidth at -40.0 dB

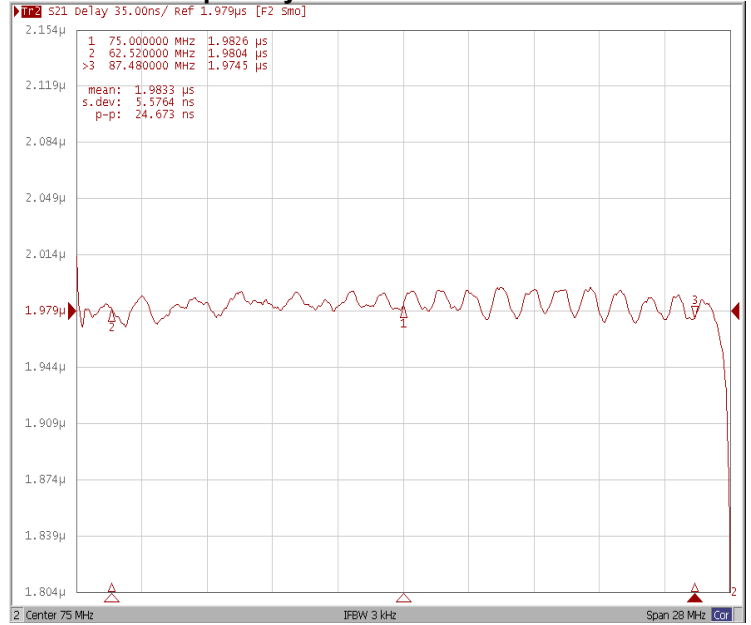




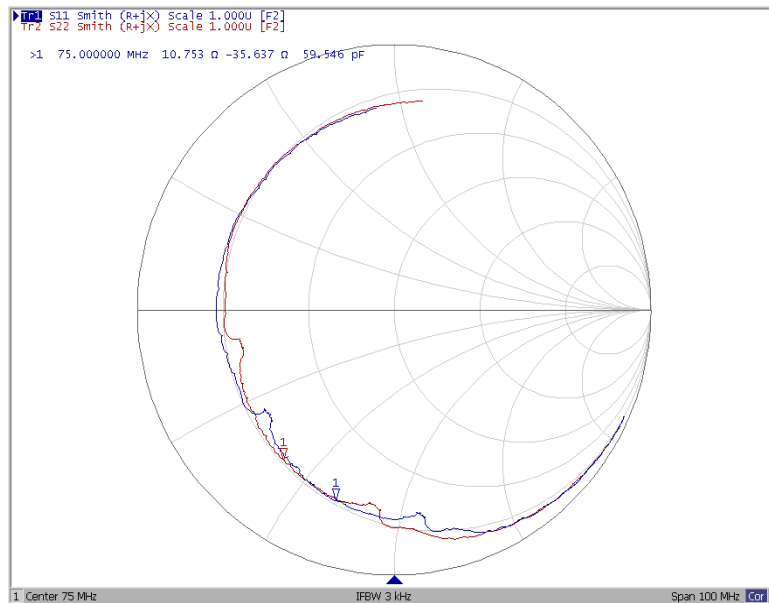
### Ripple Variation Fo±12.48MHz



### Group Delay Variation Fo±12.48MHz



### Smith Chart





### VSWR

