



REV A January 2011


Oscilent Controlled Document

Ordering Code / Part Number	Product Description
820-IF75.0M-26A	75MHz IF SAW Filter 26.6MHz Bandwidth

### Specification Contents

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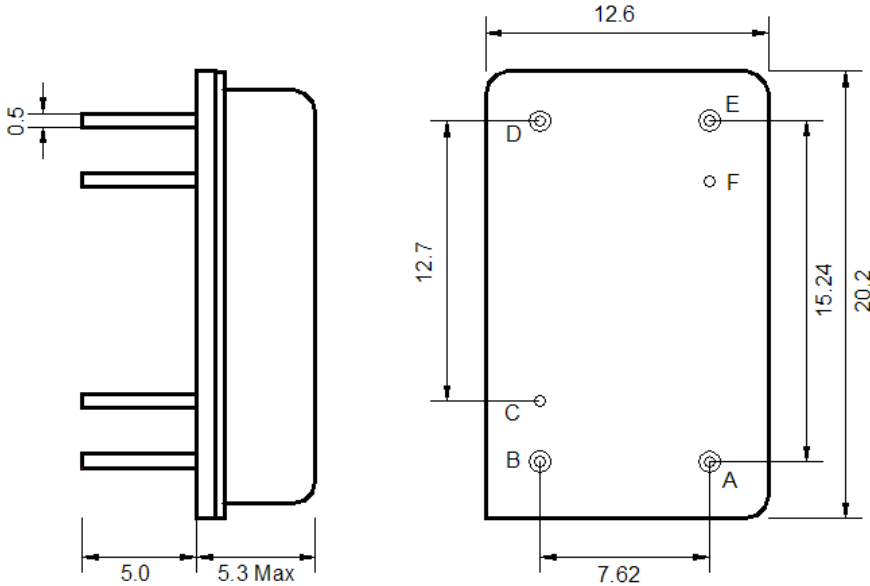
### Notes

- 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)



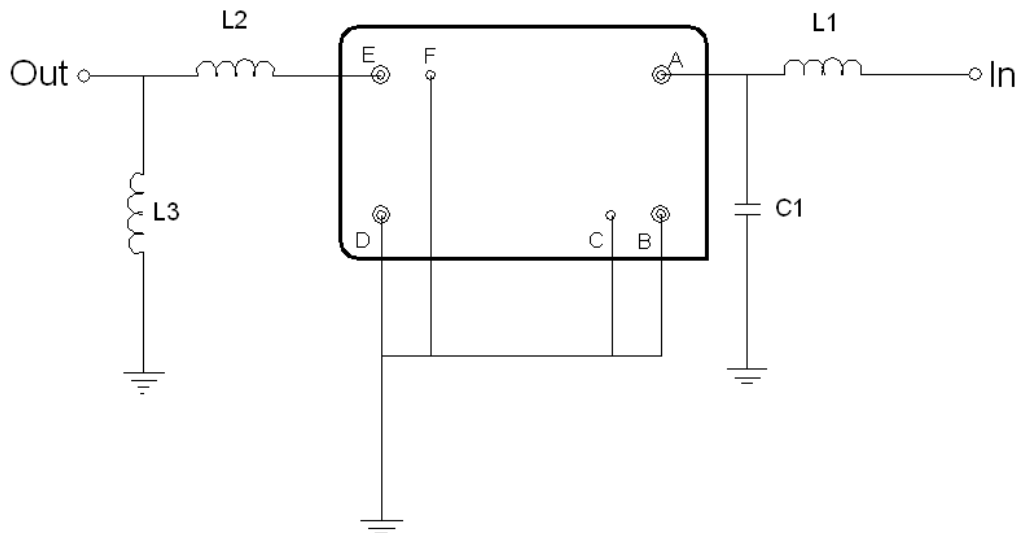


## Mechanical Dimensions (mm)



Pin Description	
B, C, D, F	Ground
A	Input
E	Output

## Test Circuit



Test Fixture & Values	
Input	L1=180 nH, C1=6.8pF
Output	L2=82 nH, L3=220 nH
Source/Load Impedance	50 Ω



## Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+80
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.

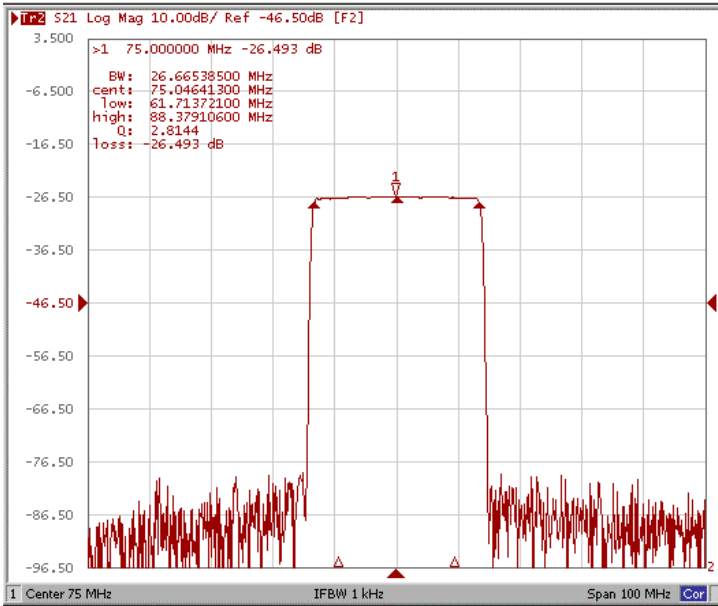
## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	75.0	-
Insertion Loss at Fo	dB	-	26.5	28
Group Delay Variation (Fo±12.5MHz)	ns	-	25	60
Absolute Delay	us	-	1.83	-
Temperature Coefficient	ppm/°C	-	-72	-
Passband Ripple (Fo±12.5MHz)	dB	-	0.55	1.00
Bandwidth at -1dB	MHz	-	26.6	-
Bandwidth at -20dB	MHz	-	28.4	-
Bandwidth at -50dB	MHz	-	29.2	-
Ultimate Rejection	dB	-	53	-
Relative Attenuation Fo±16MHz	dB	-	53	-

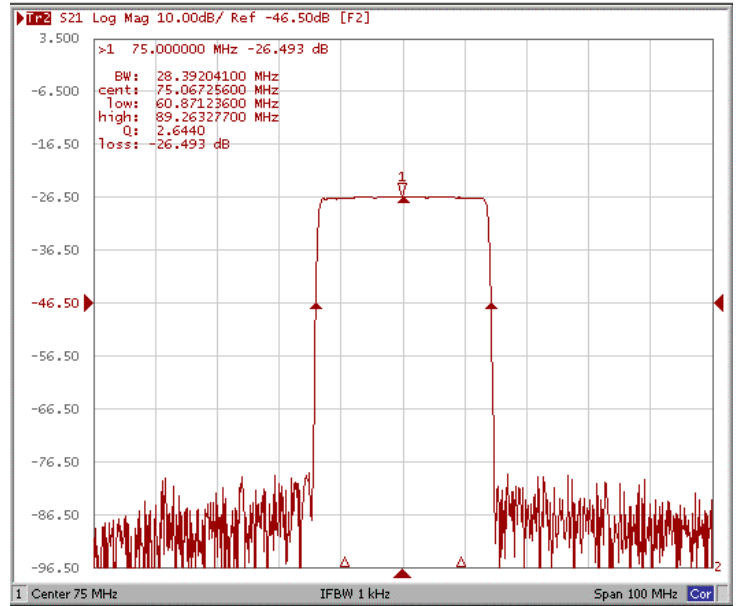


## Frequency Response

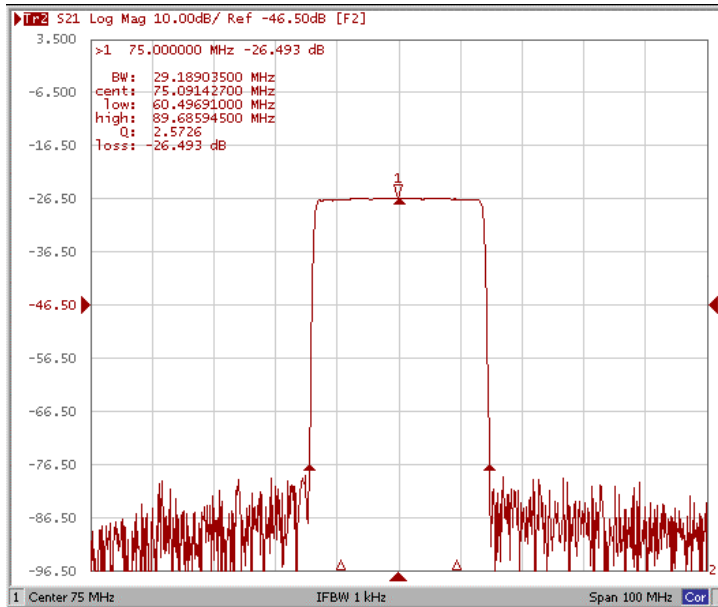
### Bandwidth at -1.0 dB



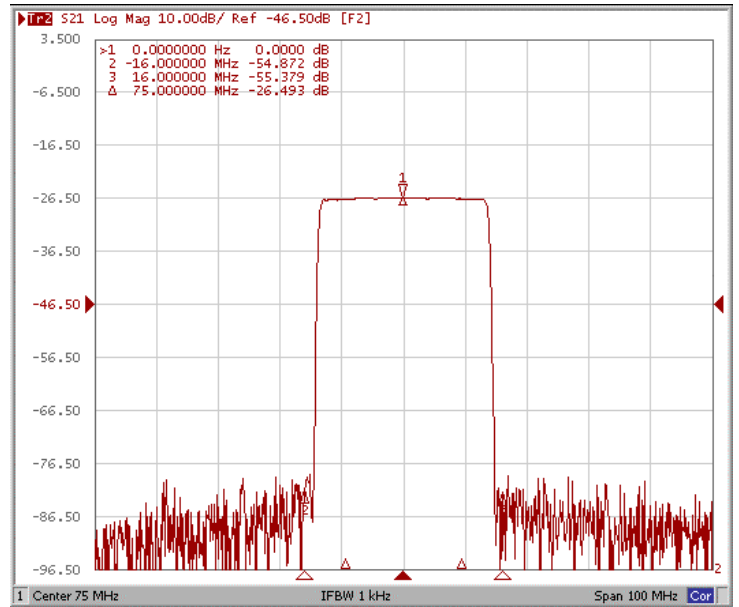
### Bandwidth at -20.0 dB



### Bandwidth at -50.0 dB

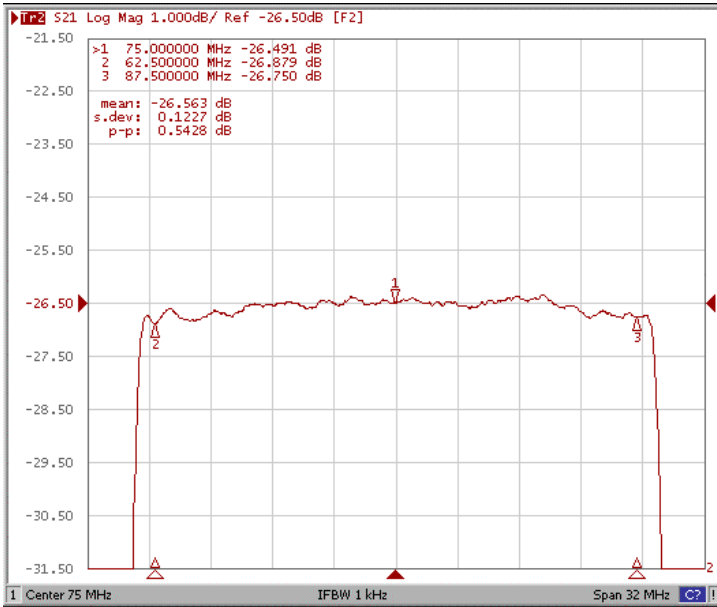


### Relative Attenuation Fo±16MHz

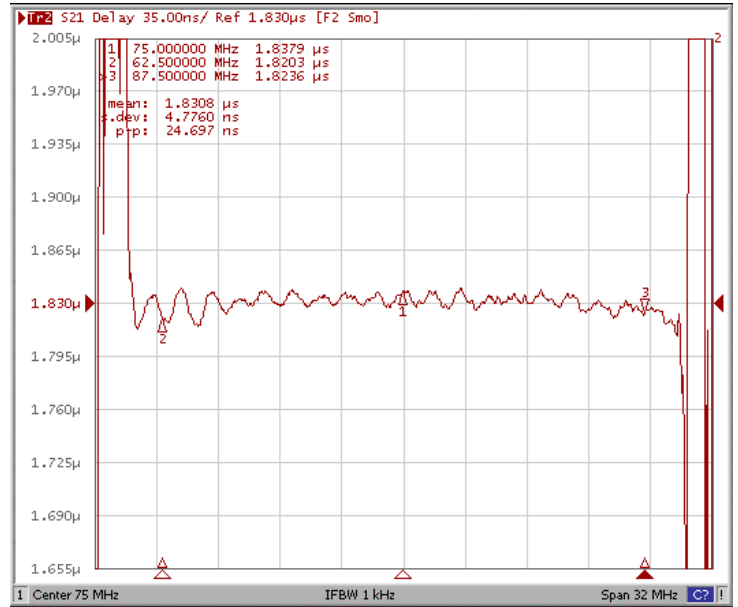




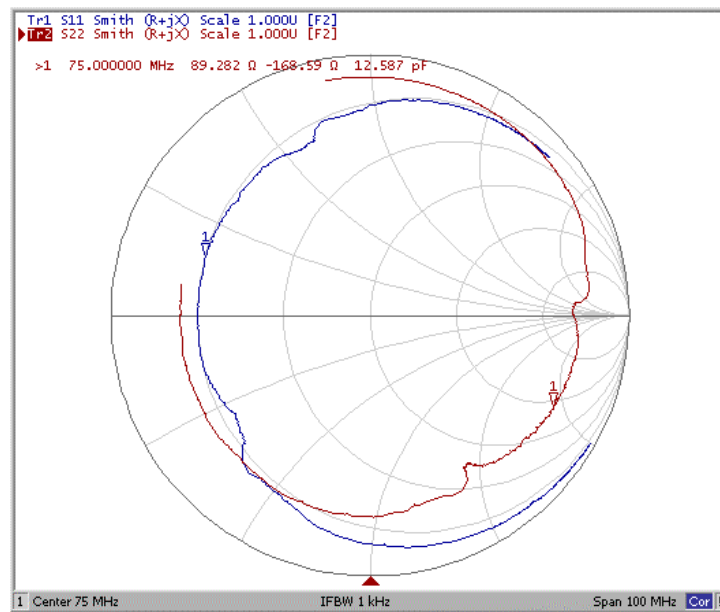
### Ripple Variation $F_o \pm 12.5\text{MHz}$



### Group Delay Variation $F_o \pm 12.5\text{MHz}$



### Smith Chart





### VSWR

