



REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
821-IF75.0M-26A	75.0MHz IF SAW Filter 26.66MHz Bandwidth

Specification Contents

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

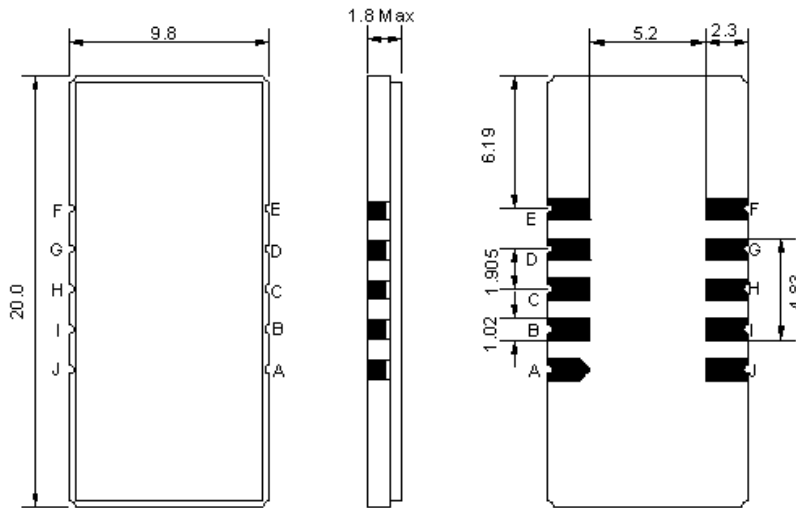
Notes

- 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)



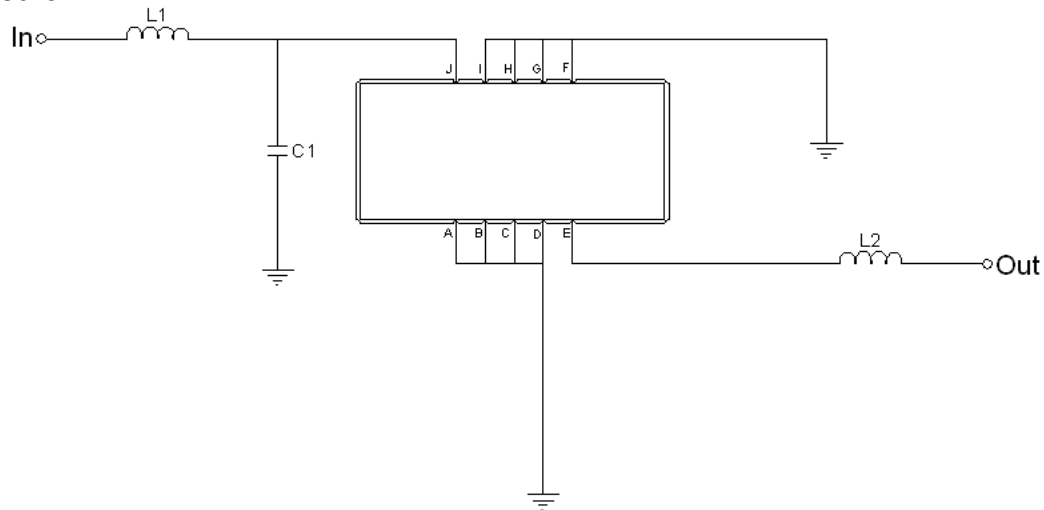


Mechanical Dimensions (mm)



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

Test Circuit



Test Fixture & Values	
Input	L1=120 nH, C1=15pF
Output	L2=150 nH
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) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	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.

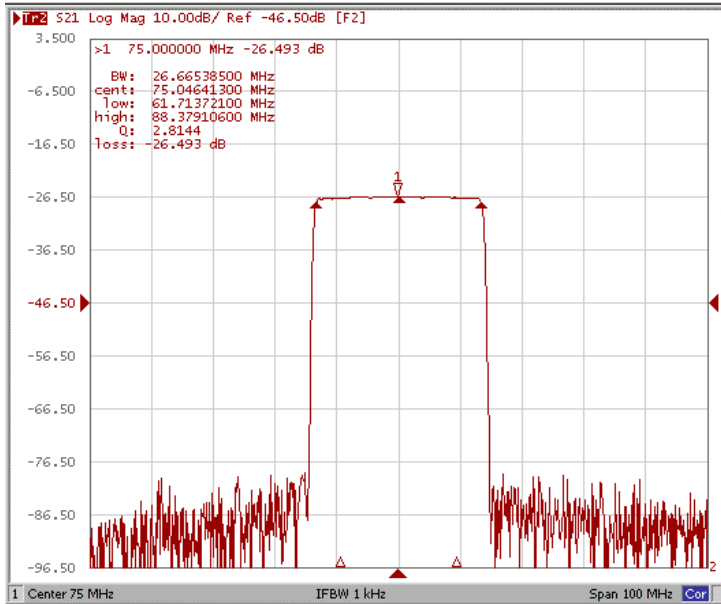
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	75.0	-
Insertion Loss at Fo	dB	-	26.50	28.00
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	0.95
Bandwidth at -1dB	MHz	-	26.66	-
Bandwidth at -30dB	MHz	-	28.70	-
Bandwidth at -50dB	MHz	-	29.20	-
Ultimate Rejection	dB	-	53	-
Relative Attenuation Fo±16MHz	dB	-	53	-

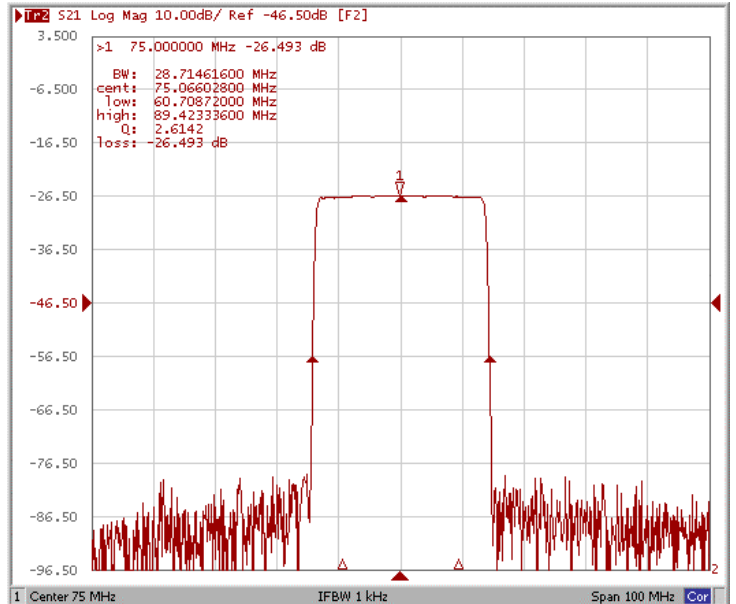


Frequency Response

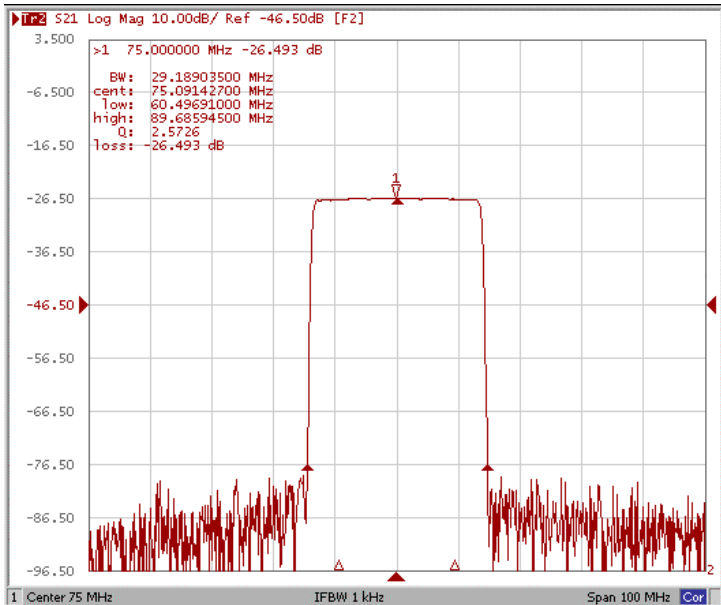
Bandwidth at -1.0 dB



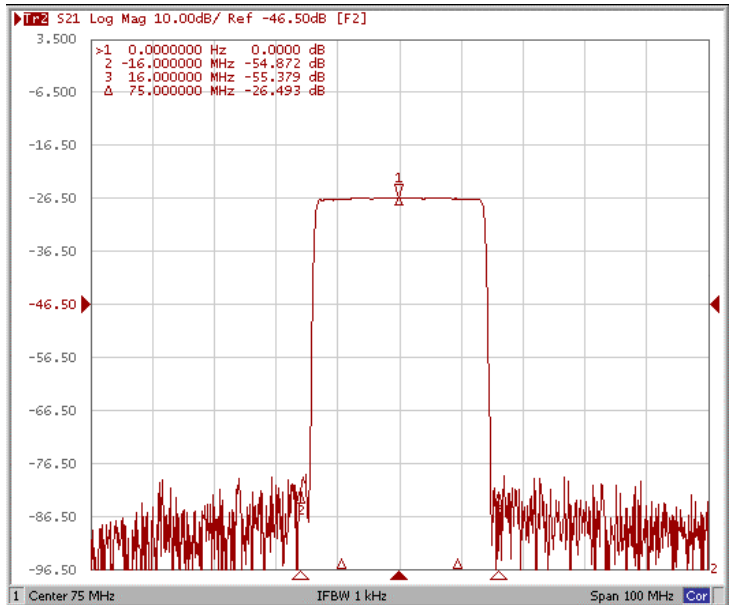
Bandwidth at -30.0 dB



Bandwidth at -50.0 dB

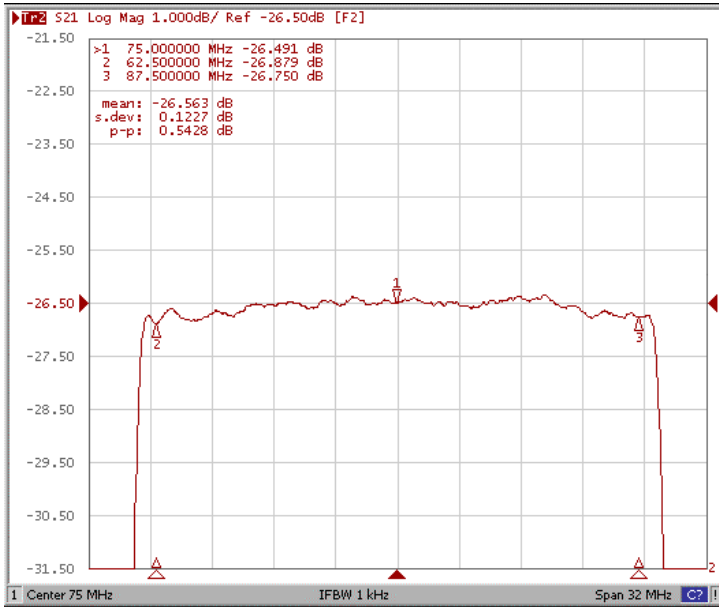


Relative Attenuation Fo±16MHz

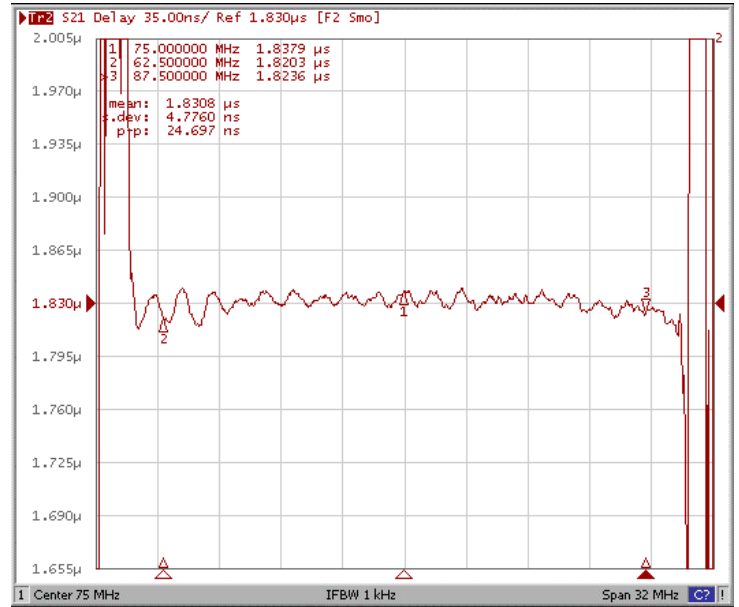




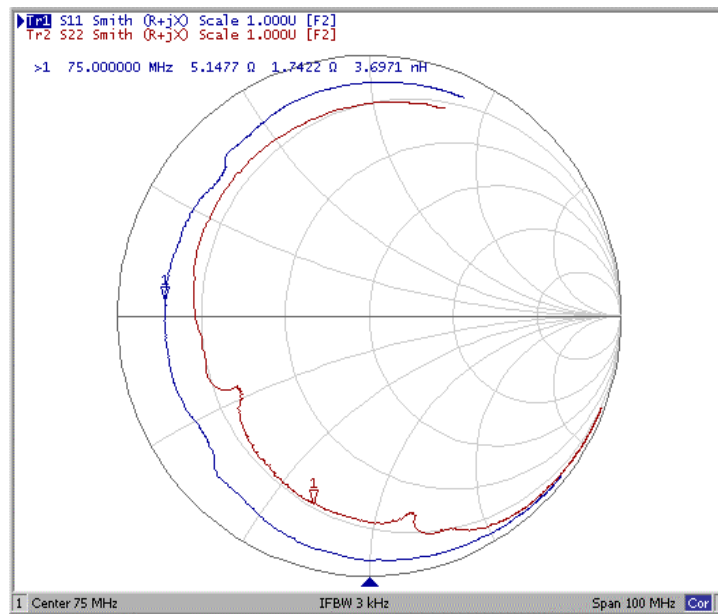
Ripple Variation Fo±12.5MHz



Group Delay Variation Fo±12.5MHz



Smith Chart





VSWR

