



REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
821-IF190.0M-26A	90.0 MHz IF SAW Filter 26.45 MHz 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)



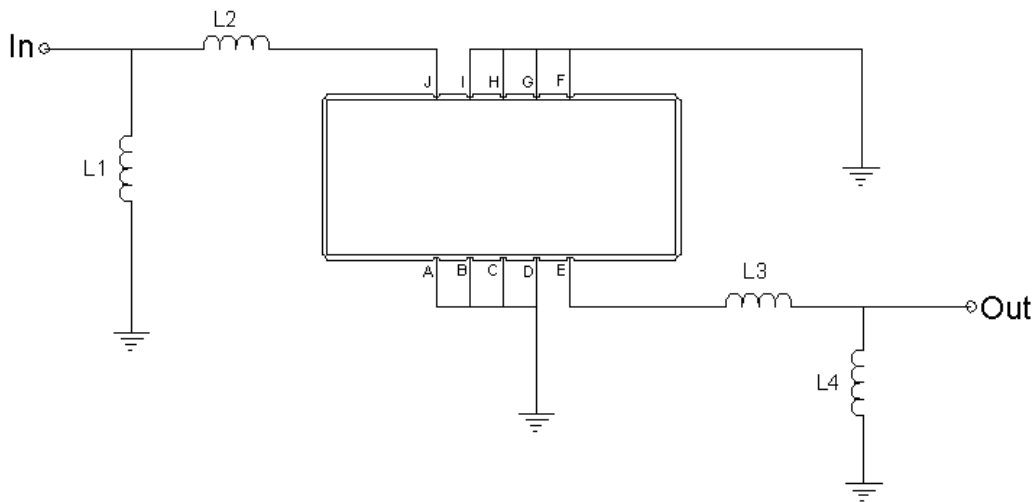


## Mechanical Dimensions (mm)



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

## Test Circuit



Test Fixture & Values	
Input	L1=22nH, L2=10nH
Output	L3=5.6nH, L4=22nH
Source/Load Impedance	50 Ω

**Maximum Ratings**

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-10	-	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.

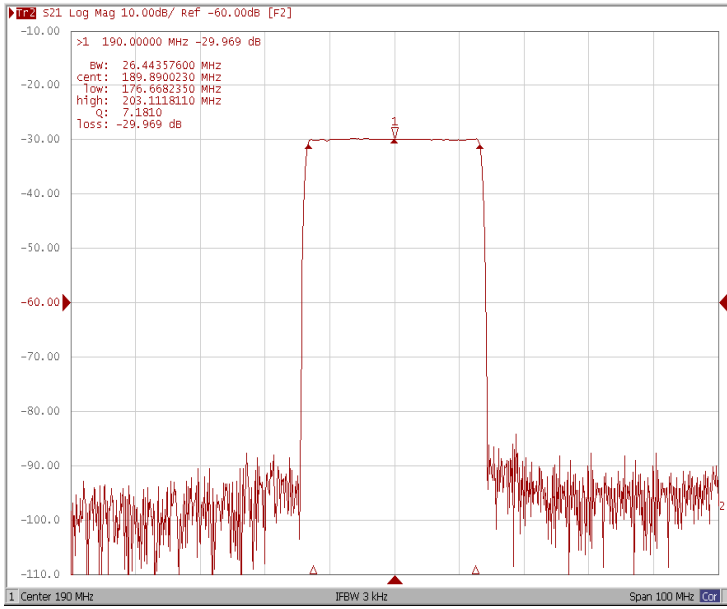
**Electrical Specification**

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	190.0	-
Insertion Loss at Fo	dB	-	29.90	31.50
Group Delay Variation (Fo±12.5MHz)	nsec	-	25	50
Absolute Delay	usec	-	2.52	-
Passband Ripple (Fo±12.5MHz)	dB	-	0.45	1.00
Bandwidth at -1dB	MHz	26.20	26.45	-
Bandwidth at -3dB	MHz	-	26.85	-
Bandwidth at -40dB	MHz	-	28.55	28.70
Bandwidth at -50dB	MHz	-	28.75	-
Ultimate Rejection	dB	50	55	-
Temperature coefficient	ppm/°C	-	-20	-

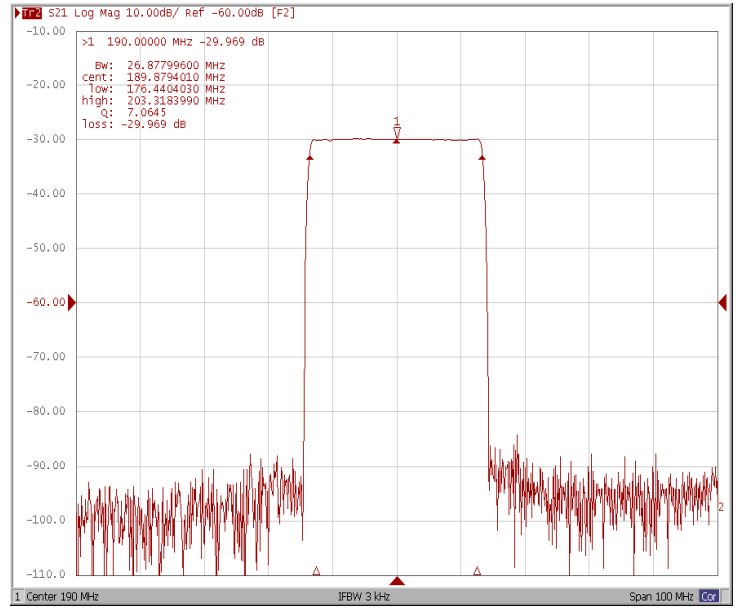


### Frequency Response

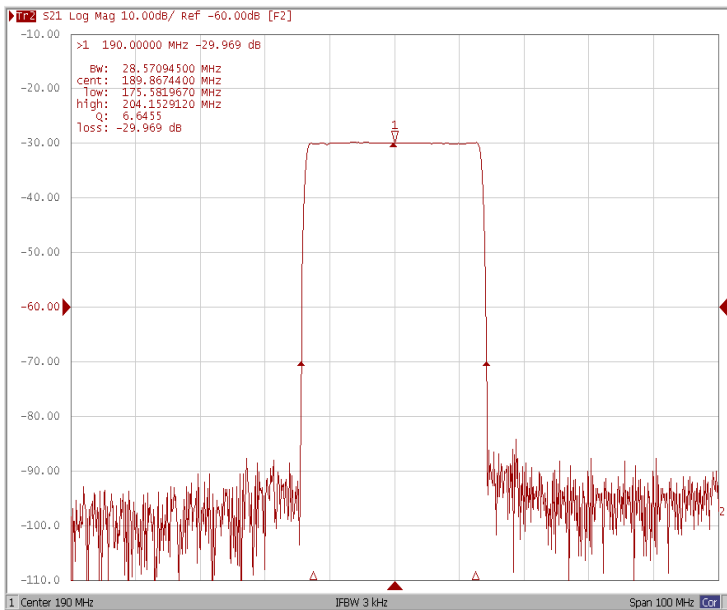
#### Bandwidth at -1.0 dB



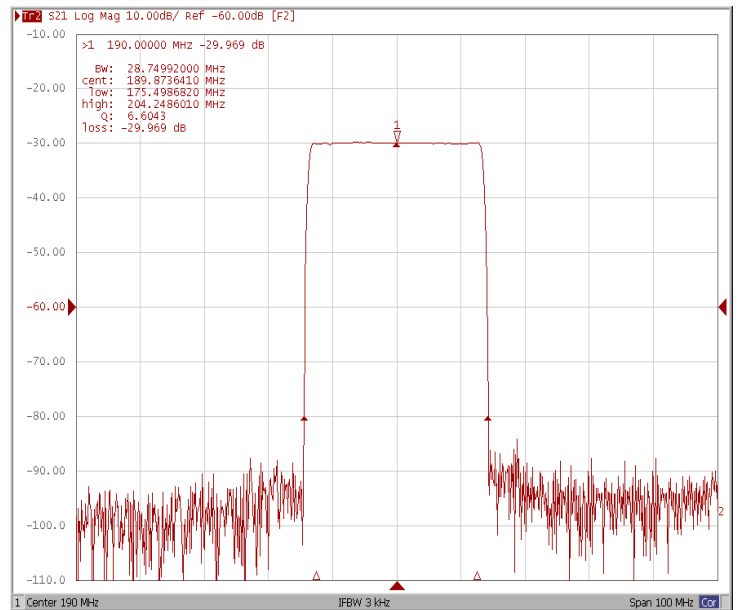
#### Bandwidth at -3.0 dB



#### Bandwidth at -40.0 dB

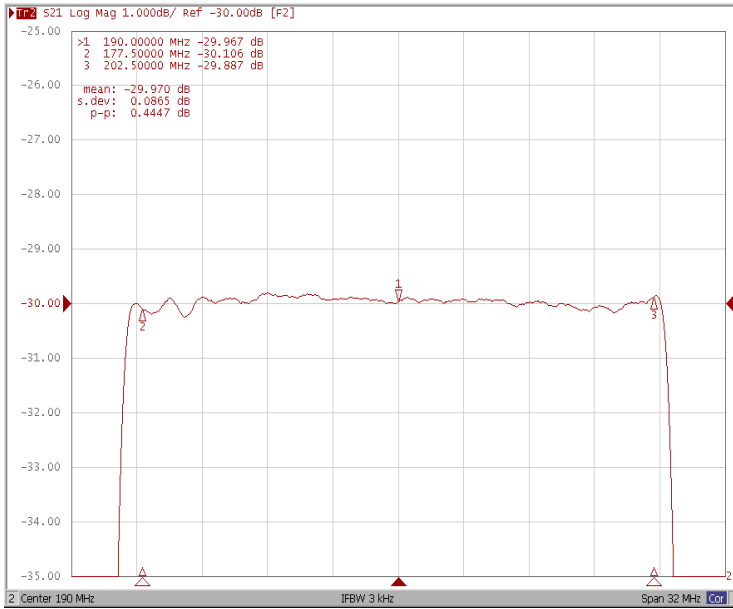


#### Bandwidth at -50.0 dB

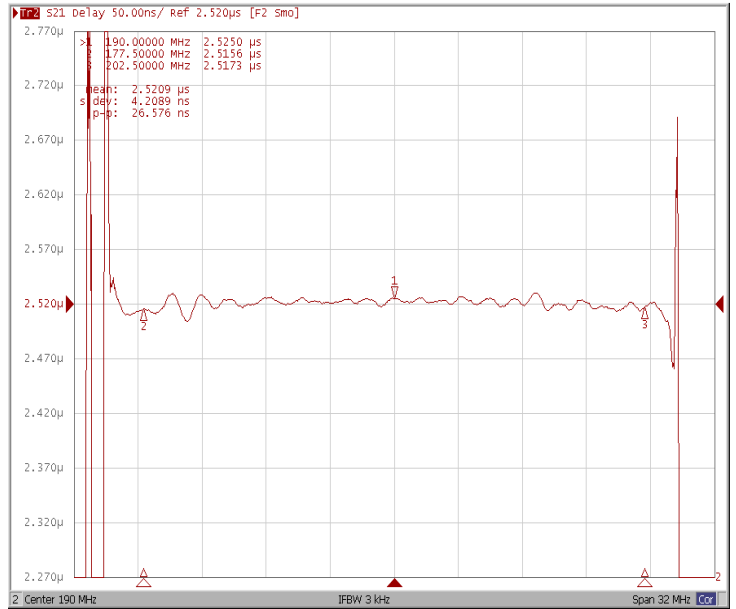




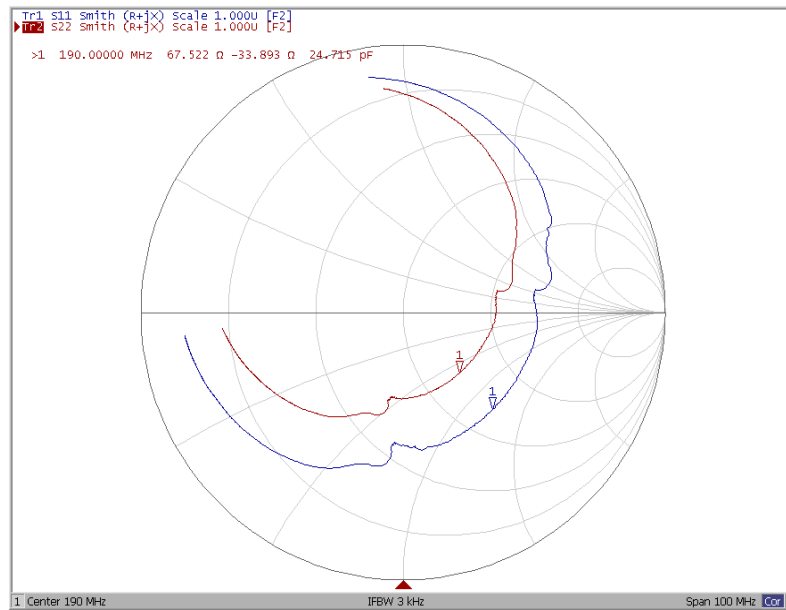
### Ripple Variation Fo±12.5MHz



### Group Delay Variation Fo±12.5MHz



### Smith Chart





### VSWR

