PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
821-IF160.0M-26A	60.0 MHz IF SAW Filter 26.25 MHz Bandwidth

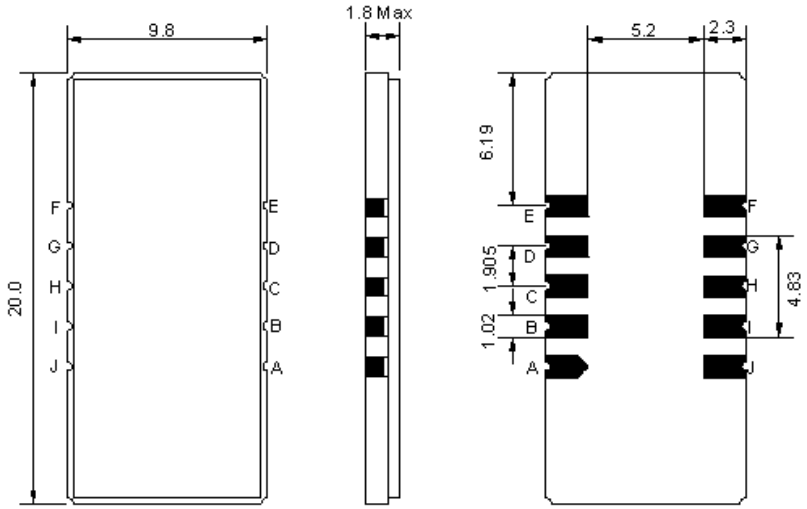
Specification Contents

Notes

- Electrostatic Sensitive Device (ESD)
- Avoid excessive ultrasonic exposure
- Solderability compatible with JEDEC J-STD-020C Pb-free process, 260°C peak reflow temperature
- This product complies with EU directive 2002/95/EC (RoHS compliance)

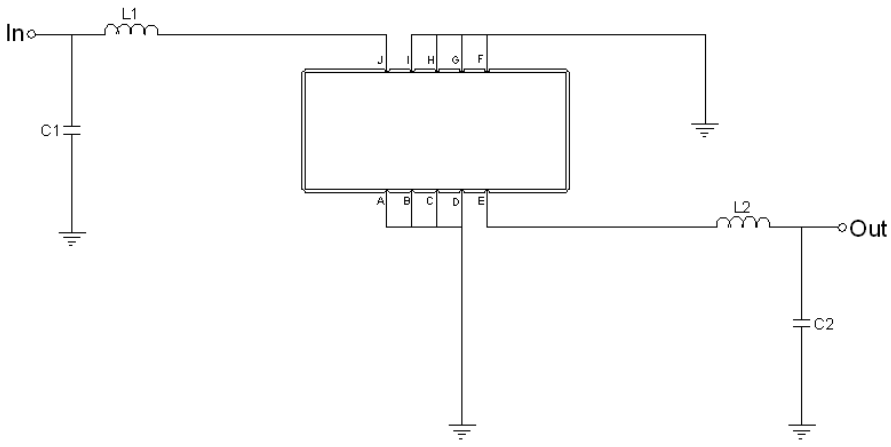
Oscilent Corporation
Telephone: 1.949.252.0522
Fax: 1.949.252.0522
Email: sales@oscilent.com

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=47nH, C1=20pF
Output	L2=56nH, C2=18pF
Source/Load Impedance	50 Ω

Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-5	-	80
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	-

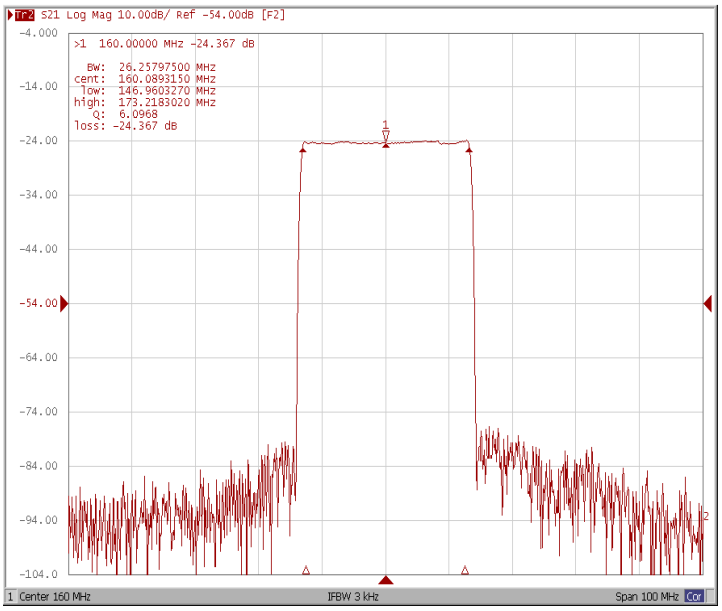
Notes: With Matching Network (Ref. Testing Environment Circuit as shown above).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Electrical Specification

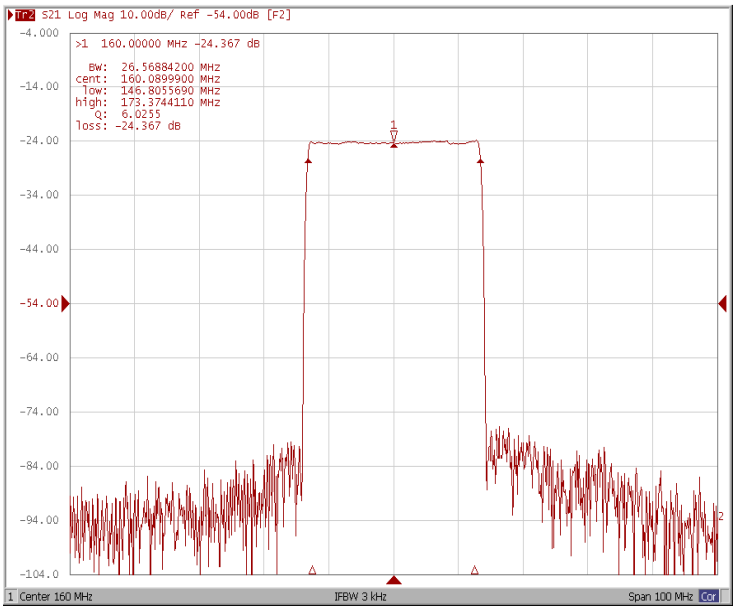
Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	160.0	-
Insertion Loss at Fo	dB	-	24.35	26.00
Group Delay Variation (Fo±12.50MHz)	nsec	-	37	70
Absolute Delay	usec	-	2.24	2.50
Passband Ripple (Fo±12.50MHz)	dB	-	0.60	1.00
Bandwidth at -1dB	MHz	26.10	26.25	-
Bandwidth at -3dB	MHz	-	26.55	-
Bandwidth at -40dB	MHz	-	27.93	-
Bandwidth at -50dB	MHz	-	28.05	28.30
Ultimate Rejection	dB	-	53	-
Temperature coefficient	ppm/°C	-	-72	-

Frequency Response

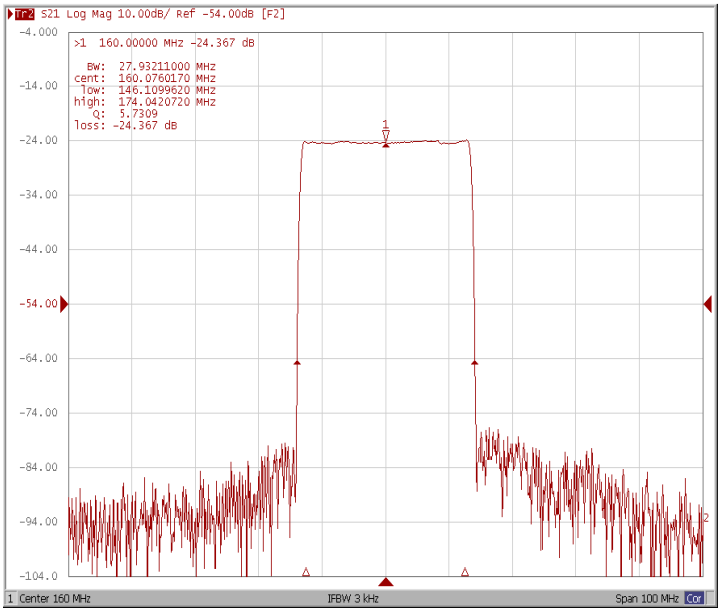
Bandwidth at –1.0 dB



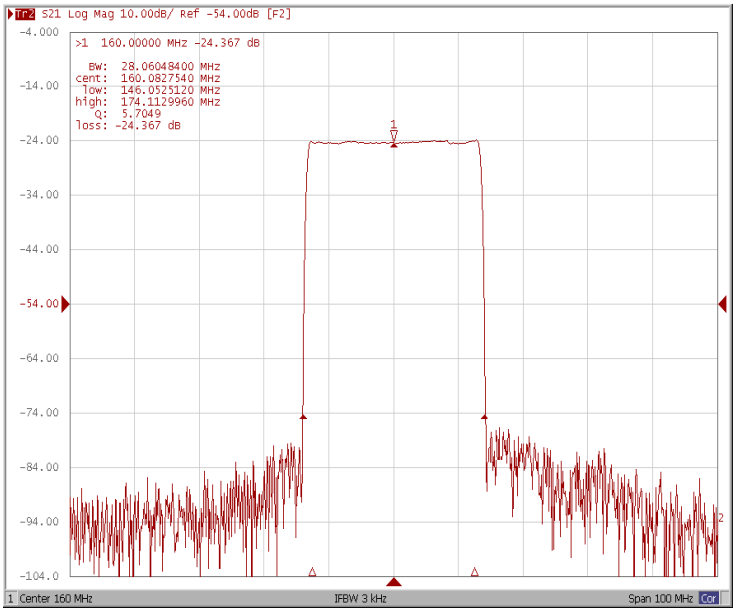
Bandwidth at –3.0 dB



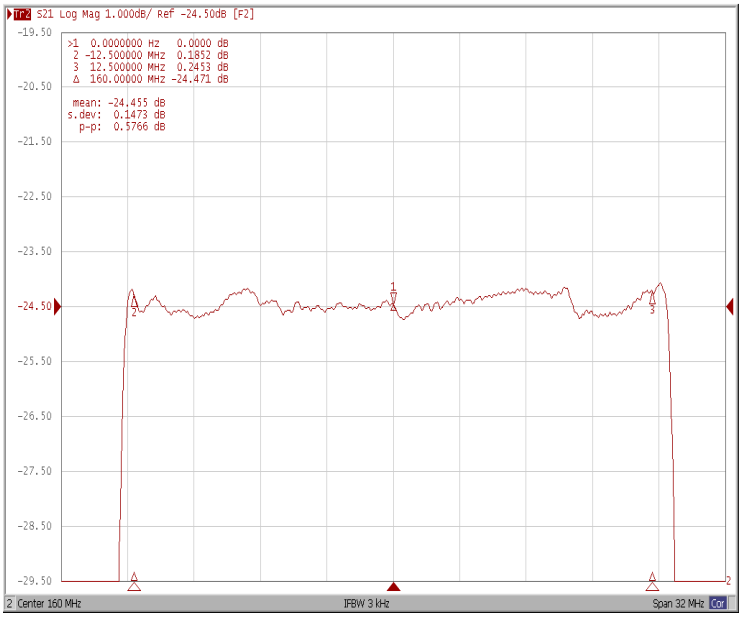
Bandwidth at –40.0 dB



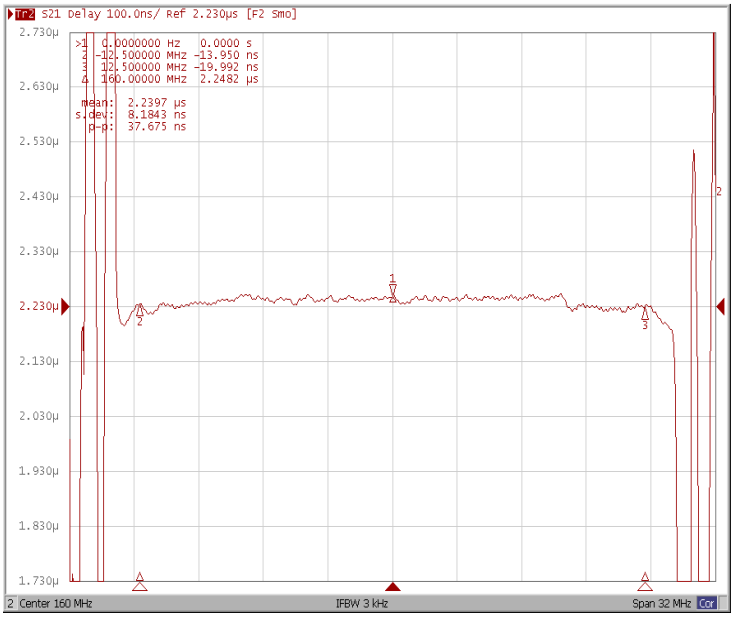
Bandwidth at –50.0 dB



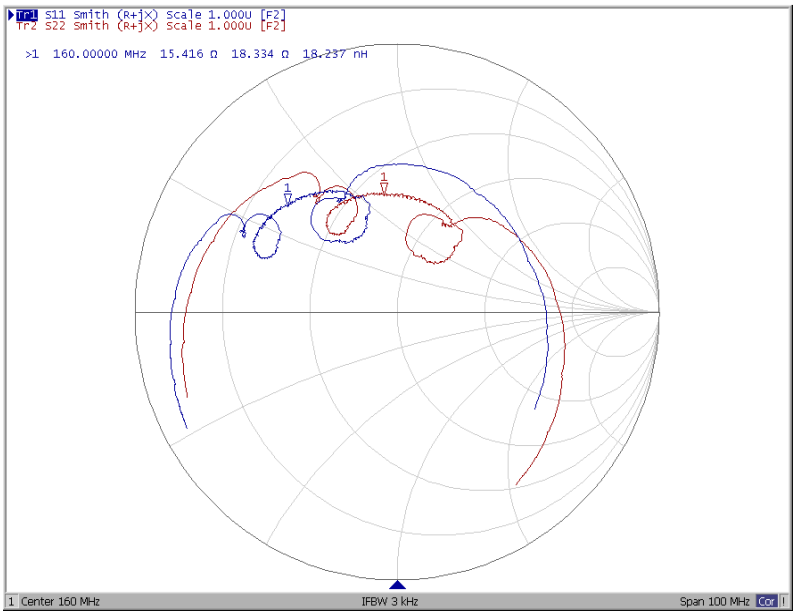
Ripple Variation Fo±12.50MHz



Group Delay Variation Fo±12.50MHz



Smith Chart



VSWR


Tr1 S11 SWR 1.000/ Ref 1.000 [F2]
Tr2 S22 SWR 1.000/ Ref 1.000 [F2]
>1 160.00000 MHz 2.5708
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
1 Center 160 MHz
IFBW 3 kHz
Span 100 MHz