



REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
820-IF260.0M-29B	60.0 MHz IF SAW Filter 29.53 MHz Bandwidth

Specification Contents

- o Mechanical Dimensions
- o Test Circuit
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- o VSWR

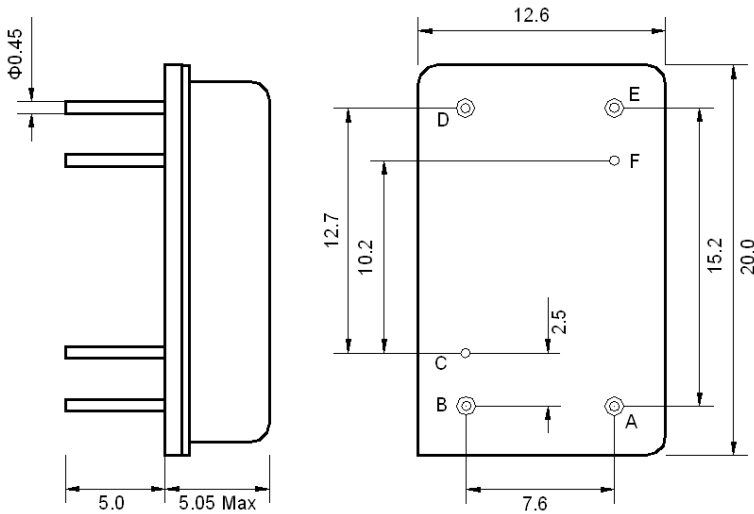
Notes

- 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)



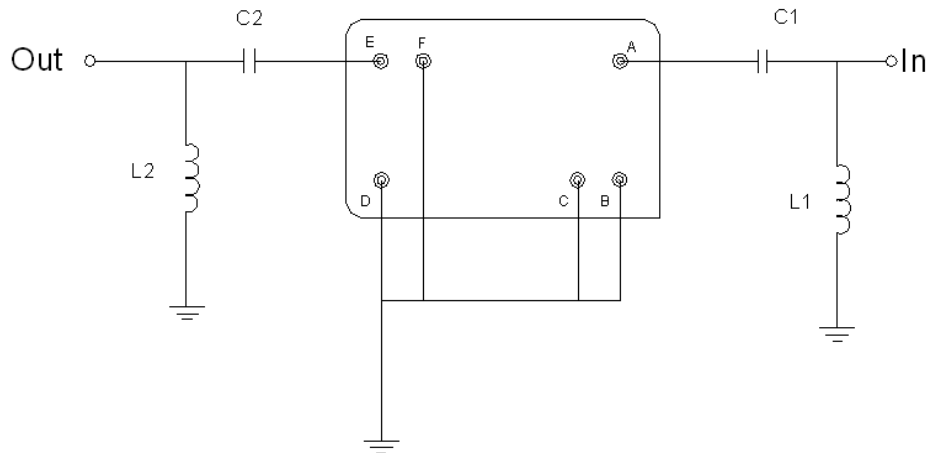


Mechanical Dimensions (mm)



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

Test Circuit



Test Fixture & Values	
Input	L1 = 8.2 nH, C1 = 130 pF
Output	L2 = 8.2 nH, C2 = 180 pF
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.

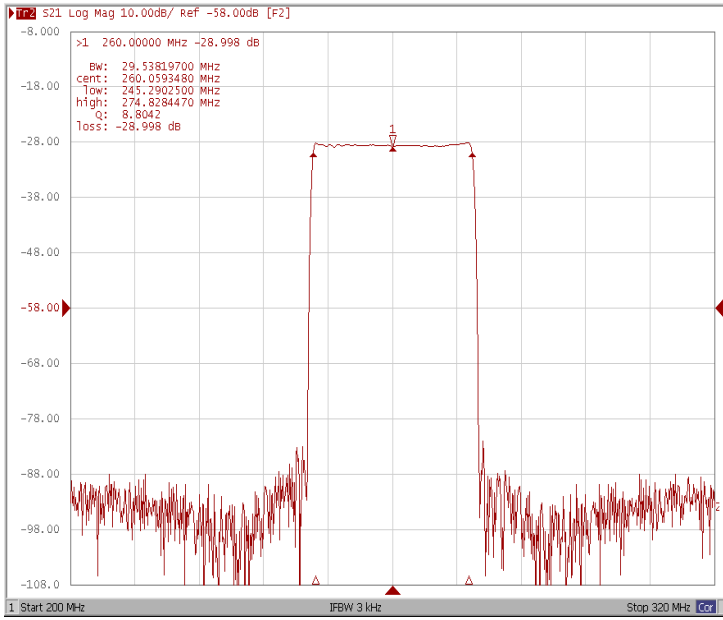
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	260.0	-
Insertion Loss at Fo	dB	-	28.7	-
Group Delay Variation at Fo ± 14.32 MHz	nsec	-	38	70
Absolute Delay at Fo	usec	-	2.40	-
Passband Ripple Variation at Fo ± 14.32 MHz	dB	-	0.89	1.2
Bandwidth at -1dB	MHz	29.35	29.53	-
Bandwidth at -3dB	MHz	-	29.87	-
Bandwidth at -40dB	MHz	-	31.54	31.70
Ultimate Rejection	dB	50	55	-
Temperature Coefficient	ppm/°C	-	-18	-

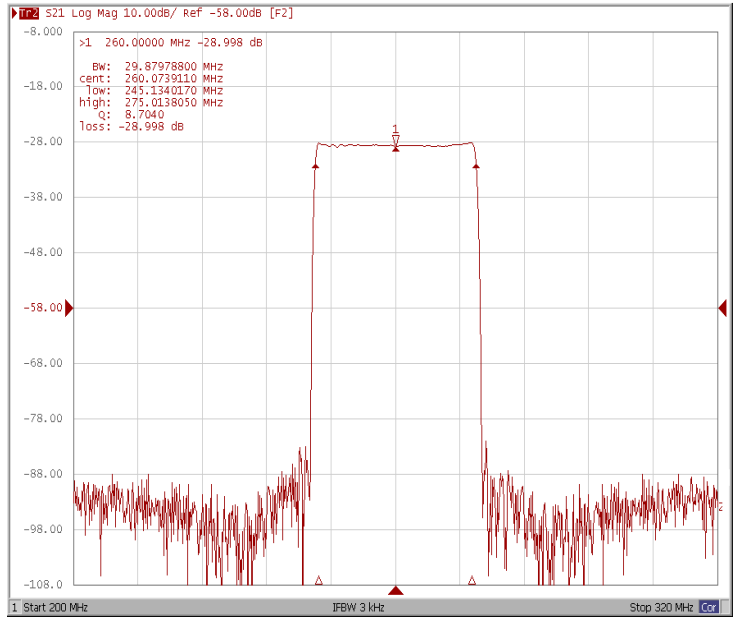


Frequency Response

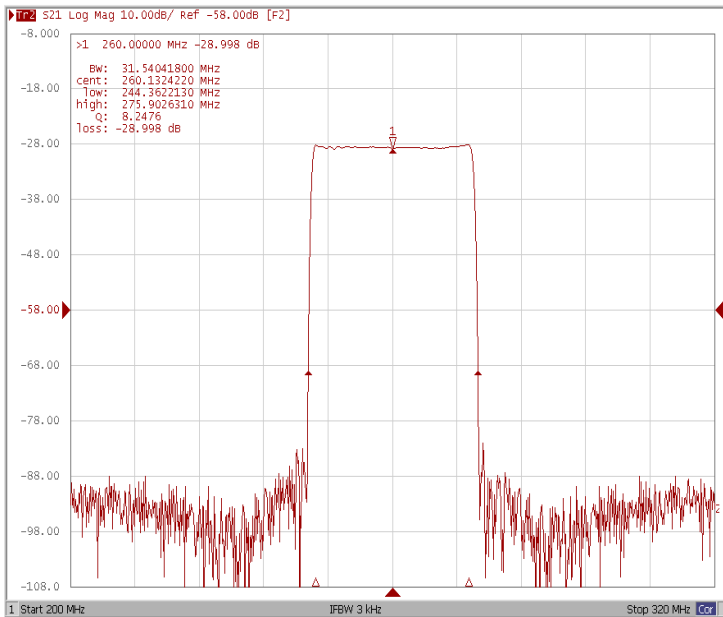
Bandwidth at -1.0 dB



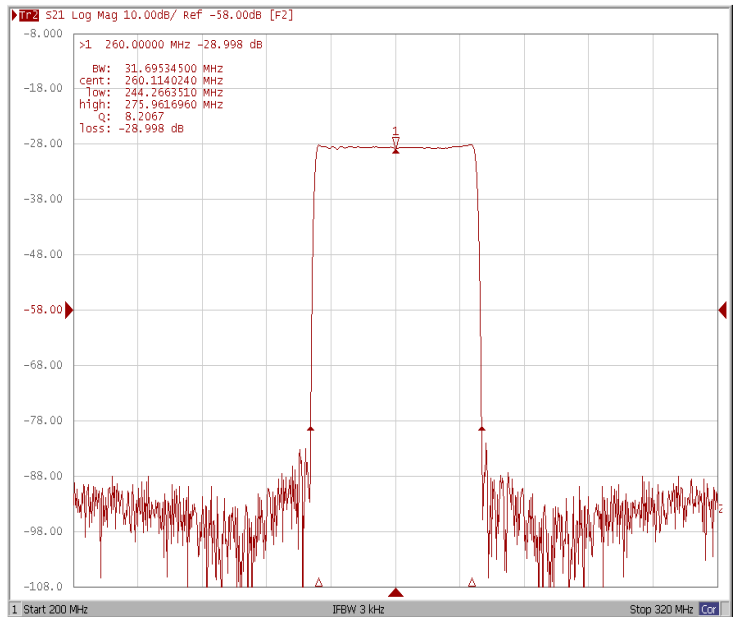
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

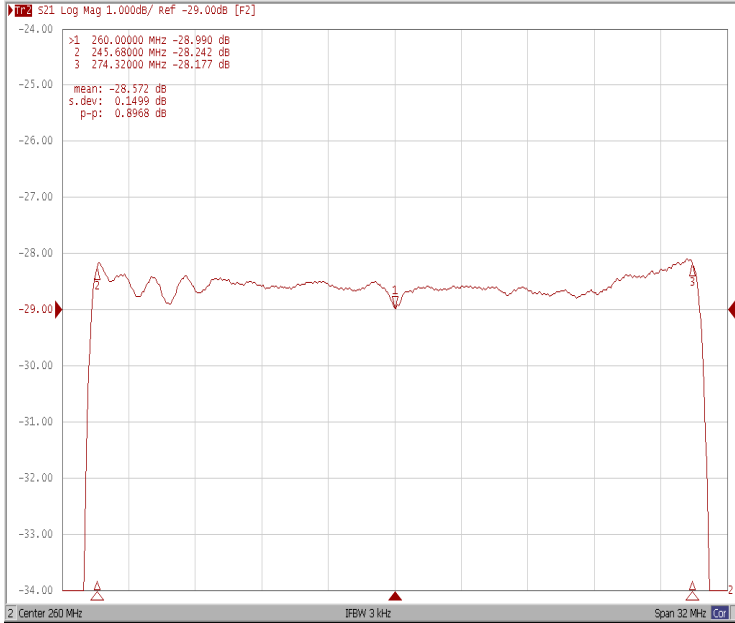


Bandwidth at -50.0 dB

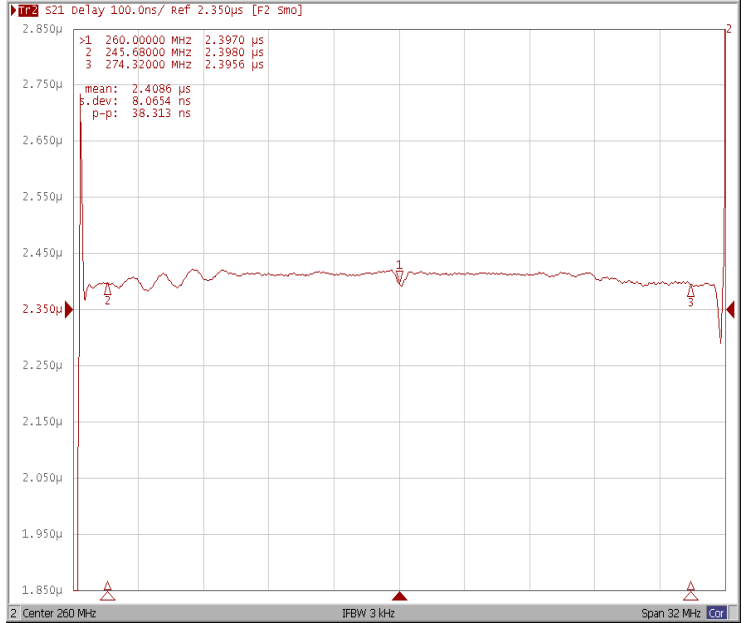




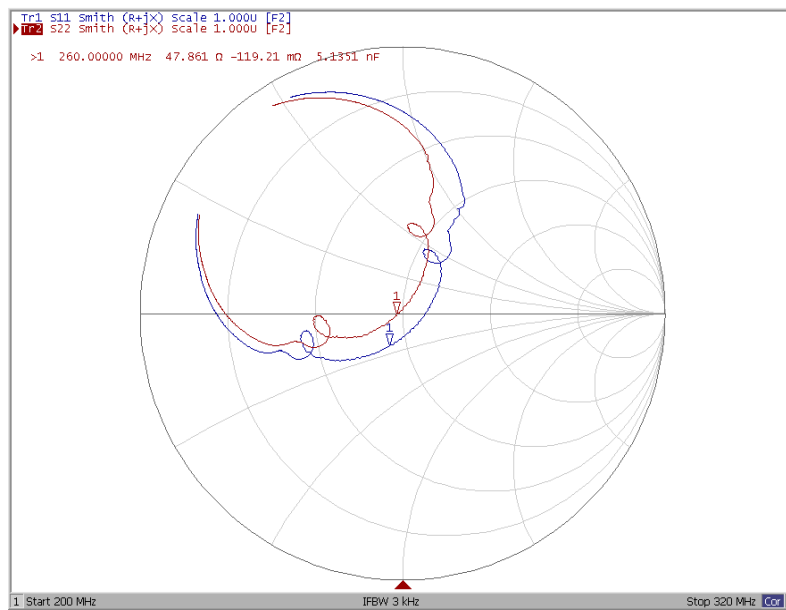
Ripple Variation Fo±14.32MHz



Group Delay Variation Fo±14.32MHz



Smith Chart





VSWR

