



REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
835-IF98.0M-19A	98.0MHz IF SAW Filter 19.86 MHz Bandwidth

Specification Contents

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

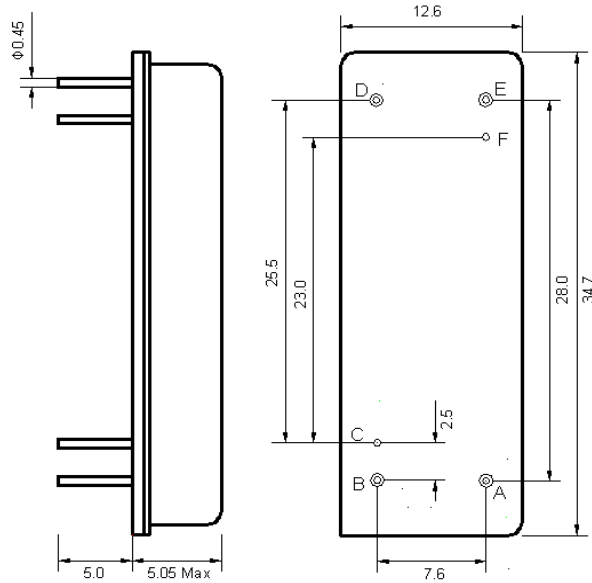
Notes

- 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)



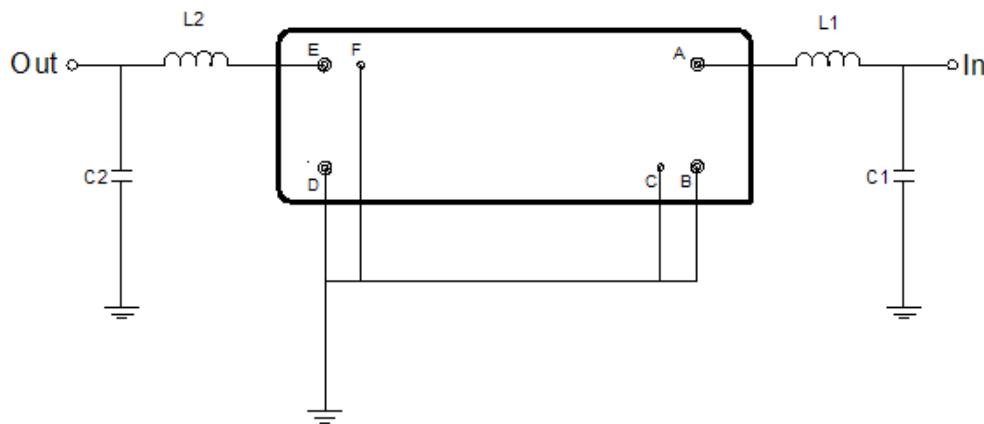


Mechanical Dimensions (mm)



Pin Description	
B, C, D, F	Ground
A	In
E	Out

Test Circuit



Test Fixture & Values	
Input	L1=56 nH, C1=22 pF
Output	L2=56 nH, C2=22 pF
Source/Load Impedance	50 Ω



Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-15	-	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	-	98.0	-
Insertion Loss at Fo	dB	-	27.0	30.0
Group Delay Variation (88.05MHz~107.7MHz)	ns	-	55	100
Absolute Delay Time at Fo	us	-	3.56	4.5
Temperature Coefficient	ppm/°C	-	-72	-
Amplitude Ripple (88.05MHz~107.7MHz)	dB	-	0.84	1.00
Bandwidth at -1dB	MHz	19.20	19.86	-
Bandwidth at -50dB	MHz	-	21.02	21.40
Relative Attenuation Fo+/-10.7MHz	dB	50	53	-



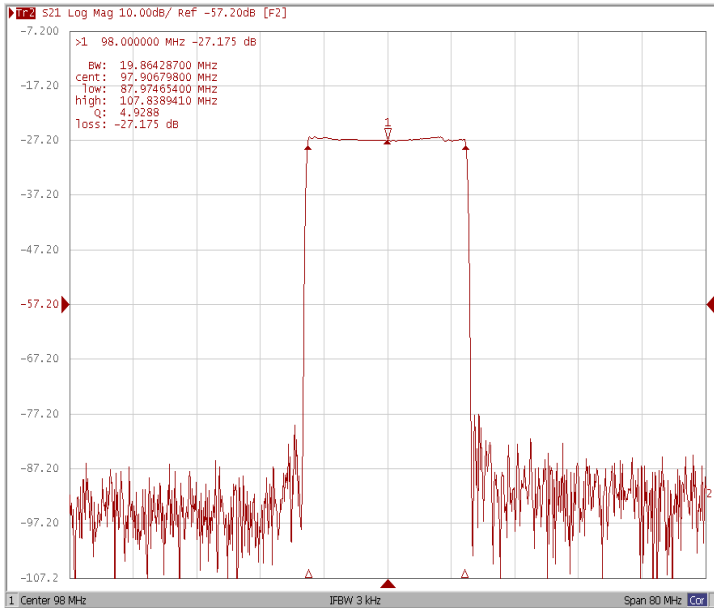
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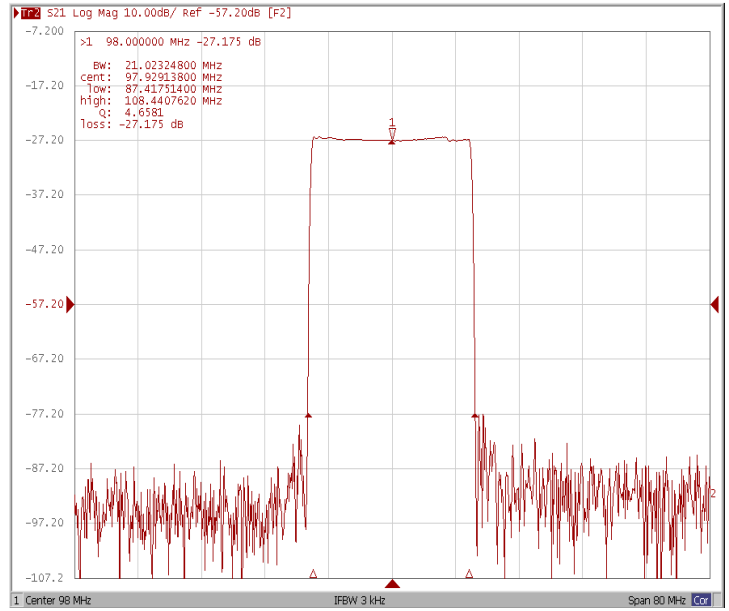
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Frequency Response

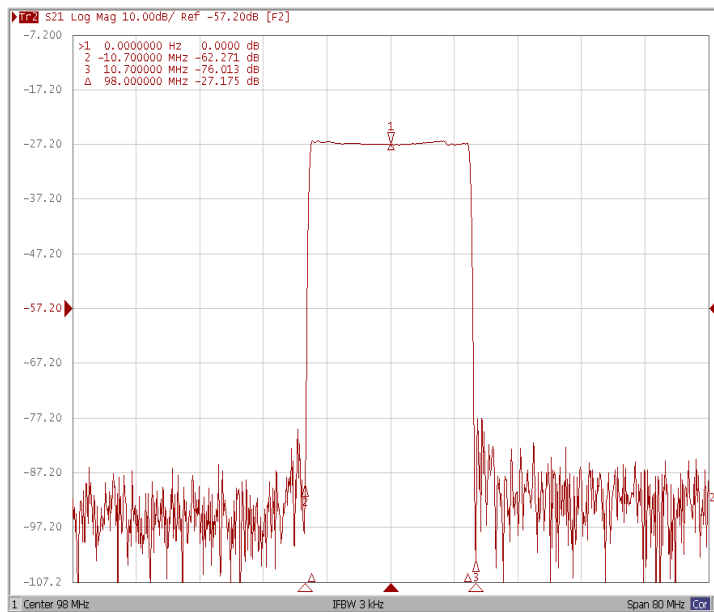
Bandwidth at -1.0 dB



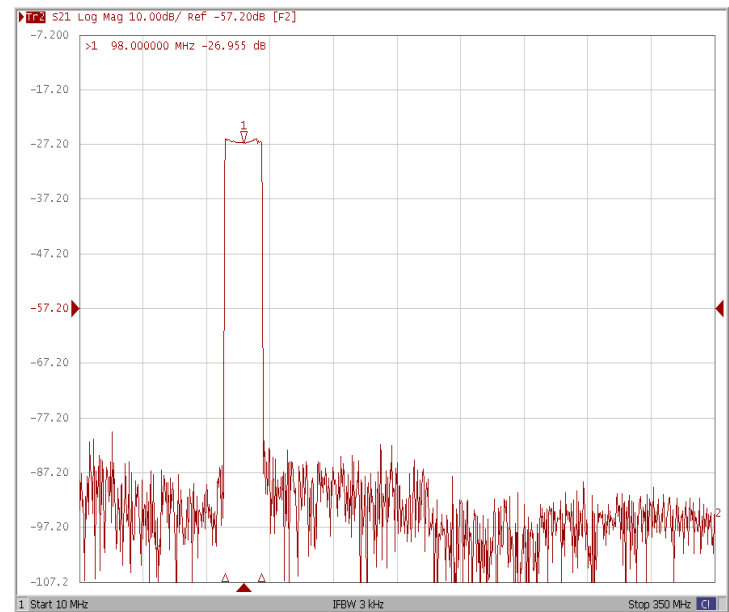
Bandwidth at -50.0 dB



Points (Fo±10.7MHz)

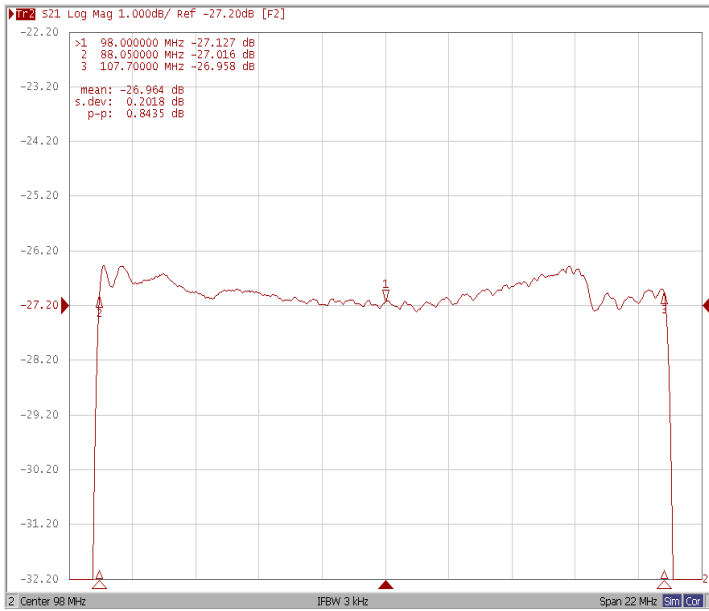


WIDE

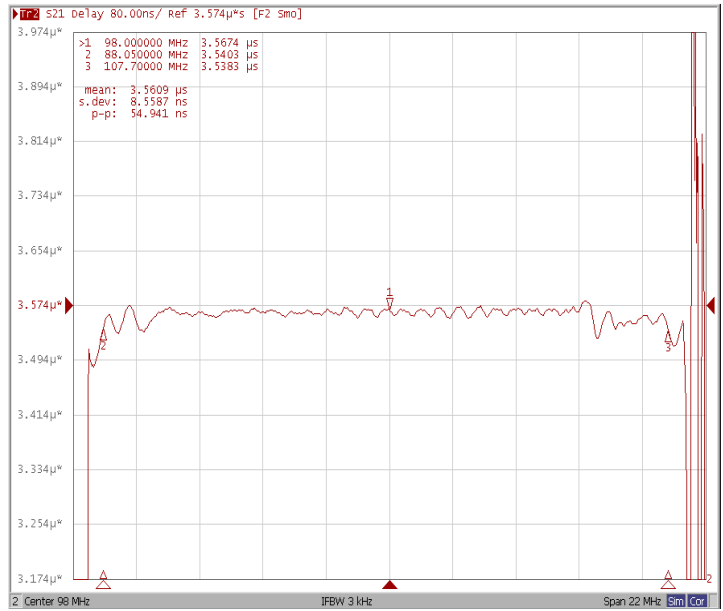




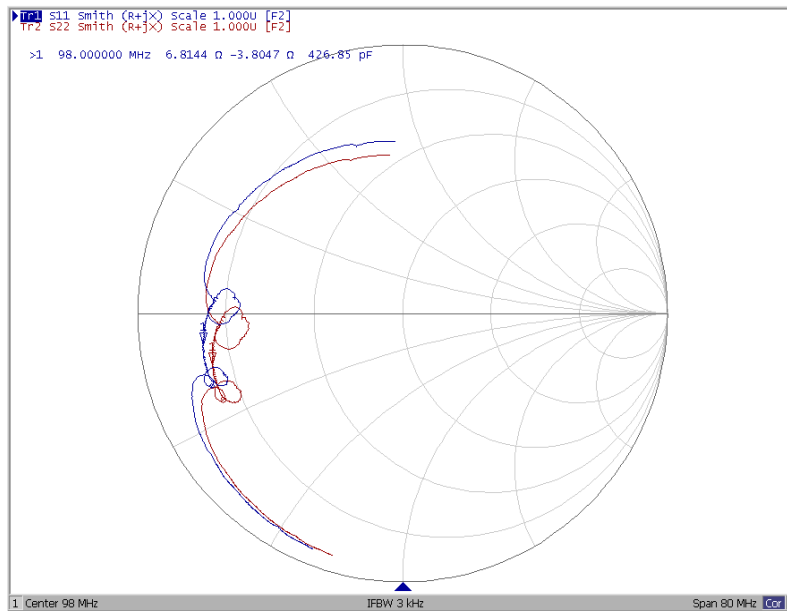
Ripple Variation (88.05MHz~107.7MHz)



Group Delay Variation (88.05MHz~107.7MHz)



Smith Chart





VSWR

