



PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
813-SL125.0M-10A	25.0 MHz IF SAW Filter 10.85 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

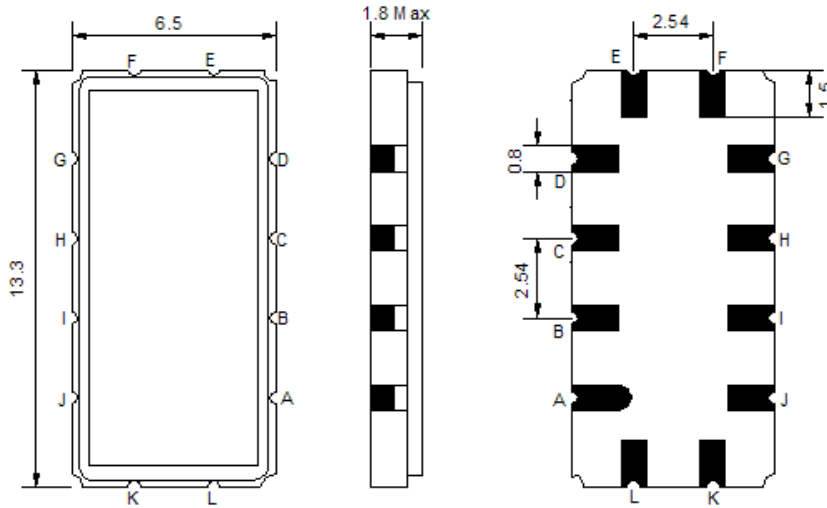
- o Electrostatic Sensitive Device (ESD) 
- o Avoid excessive ultrasonic exposure
- o Solderability compatible with JEDEC J-STD-020C Pb-free process, 260°C peak reflow temperature
- o This product complies with EU directive 2002/95/EC (RoHS compliance)



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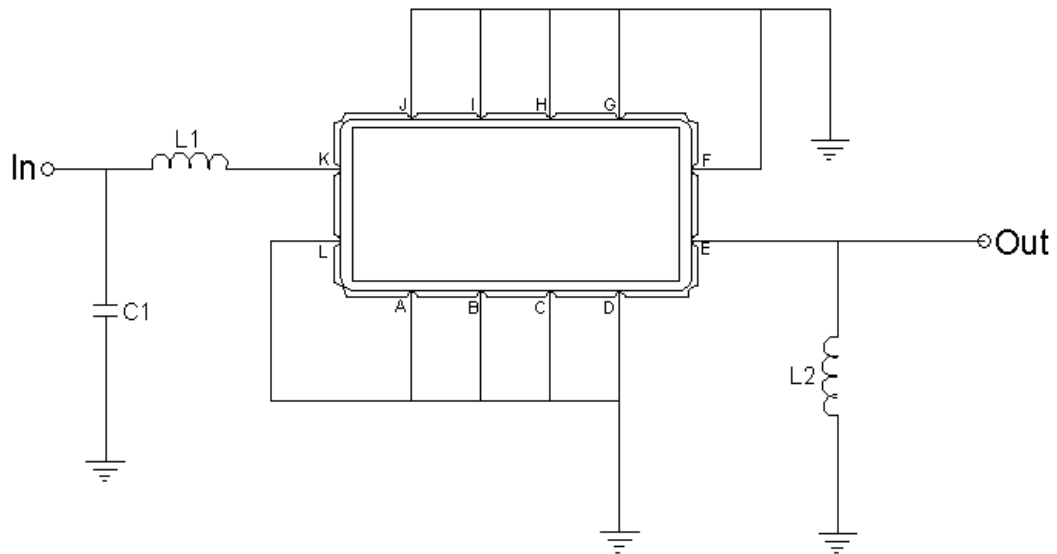


Mechanical Dimensions (mm)



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

Test Circuit



Test Fixture & Values	
Input	L1 = 56 nH, C1 = 51pF
Output	L2 = 33 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.

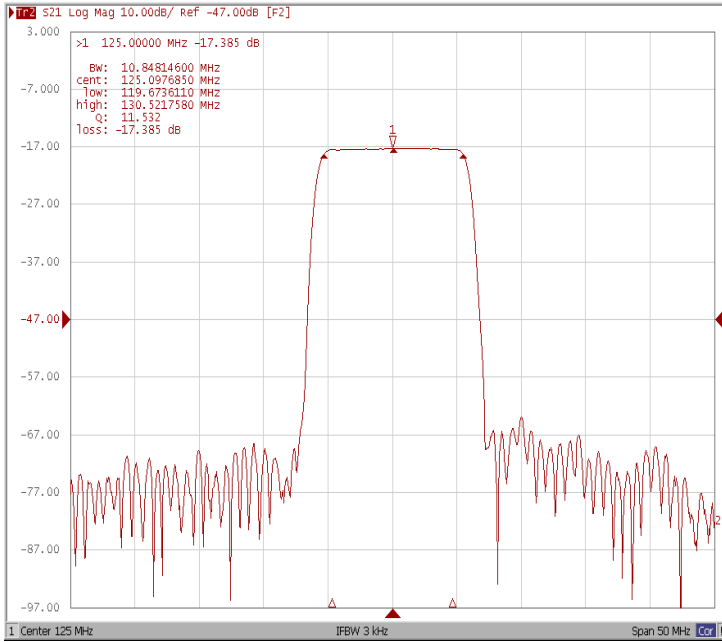
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	125.0	-
Insertion Loss at Fo	dB	-	17.5	20.0
Group Delay Variation at Fo ± 4.7 MHz	nsec	-	20	70
Absolute Delay at Fo	usec	-	1.34	-
Passband Ripple Variation at Fo ± 4.7 MHz	dB	-	0.30	0.70
Bandwidth at -1dB	MHz	10.00	10.85	-
Bandwidth at -3dB	MHz	-	11.45	-
Bandwidth at -40dB	MHz	-	13.80	14.50
Relative Attenuation				
@Fo± 55 MHz	dB	50	60	-
Lower Sidelobe	dB	40	50	-
Upper Sidelobe	dB	40	50	-
Temperature Coefficient	ppm/°C	-	-18	-

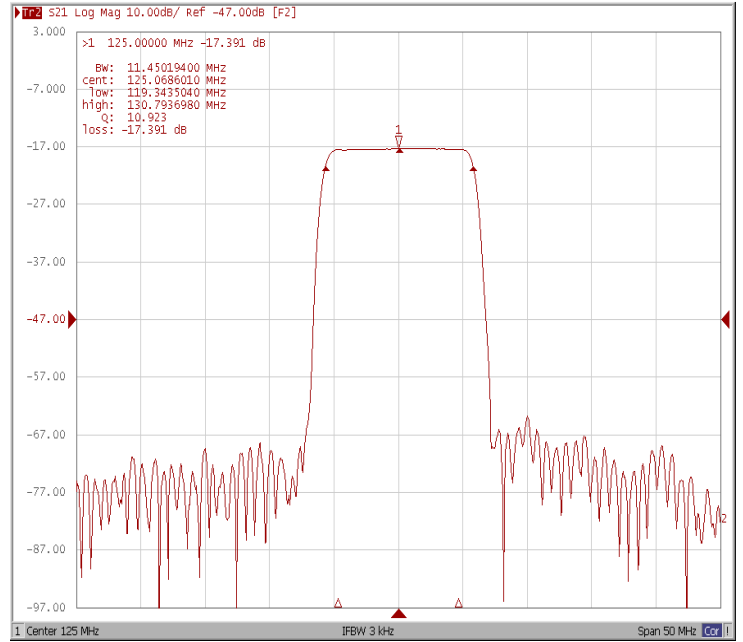


Frequency Response

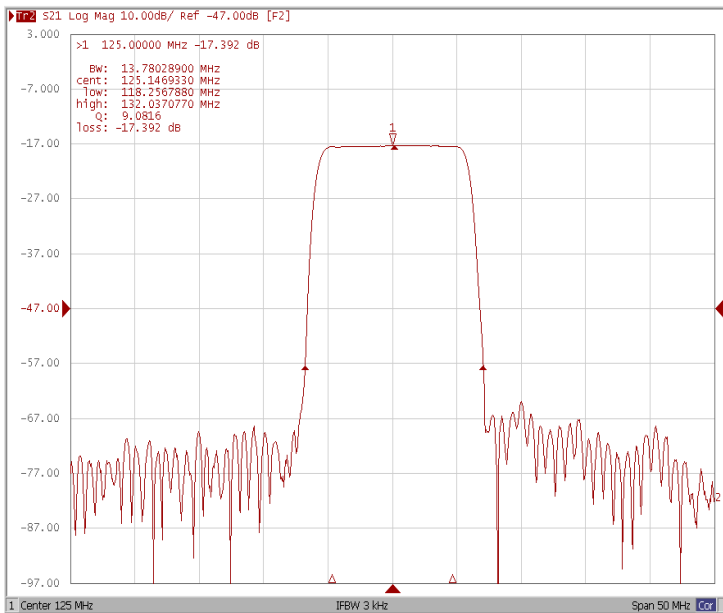
Bandwidth at -1.0 dB



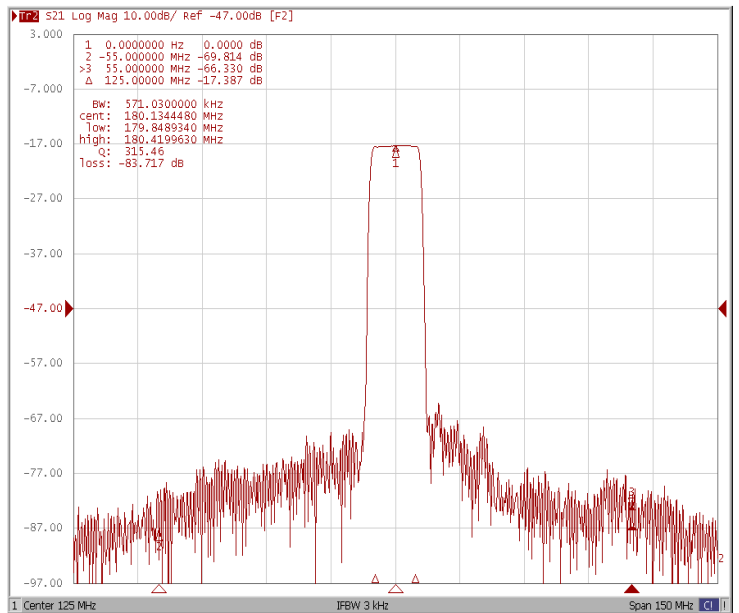
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB

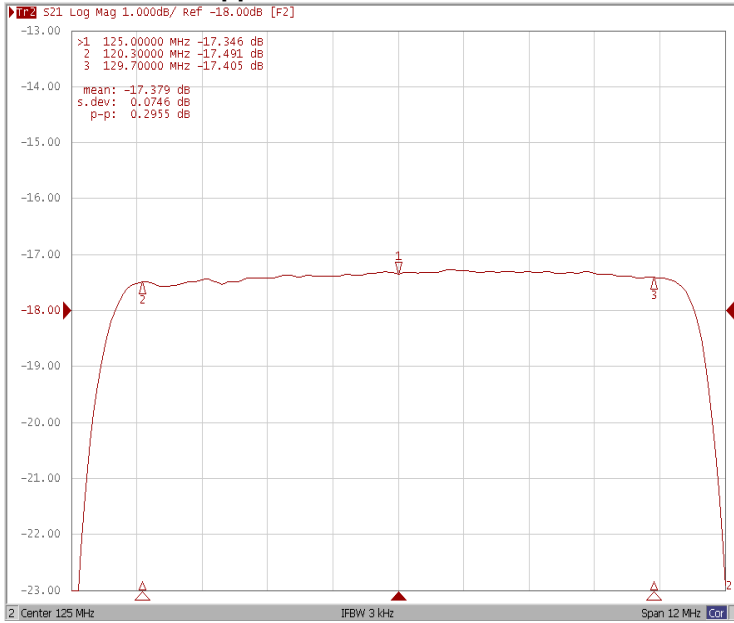


Relative Attenuation Fo±55MHz

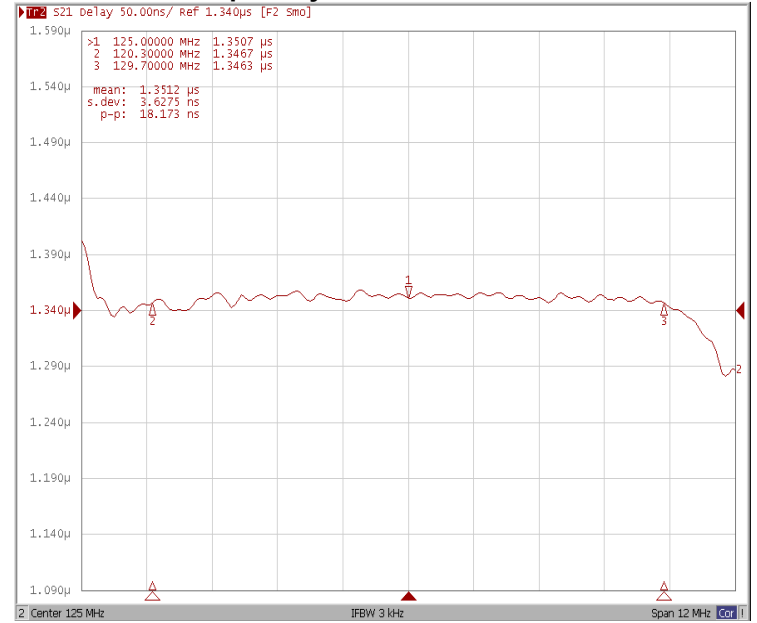




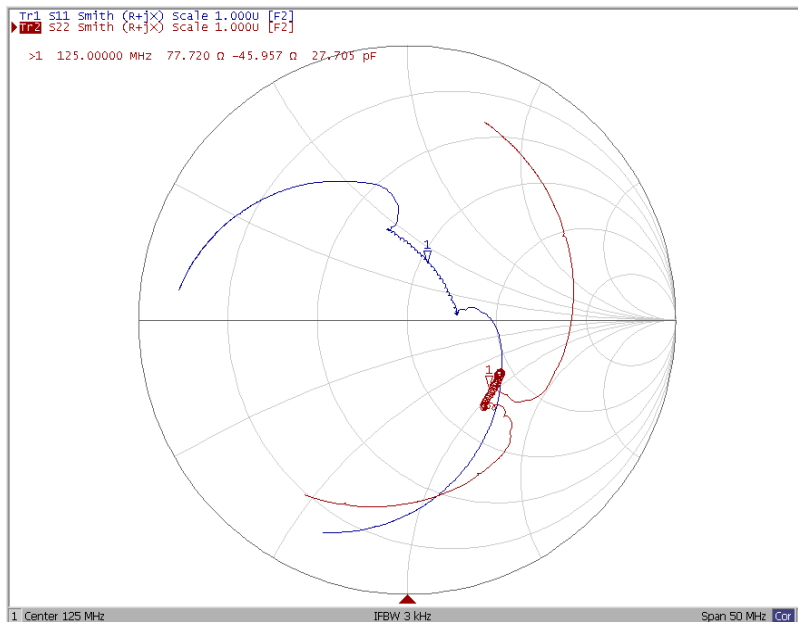
Ripple Variation Fo±4.7MHz



Group Delay Variation Fo±4.7MHz



Smith Chart





VSWR

