



REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
807-SL380.0M-10A	380.0 MHz IF SAW Filter 10.65 MHz Bandwidth

Specification Contents

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

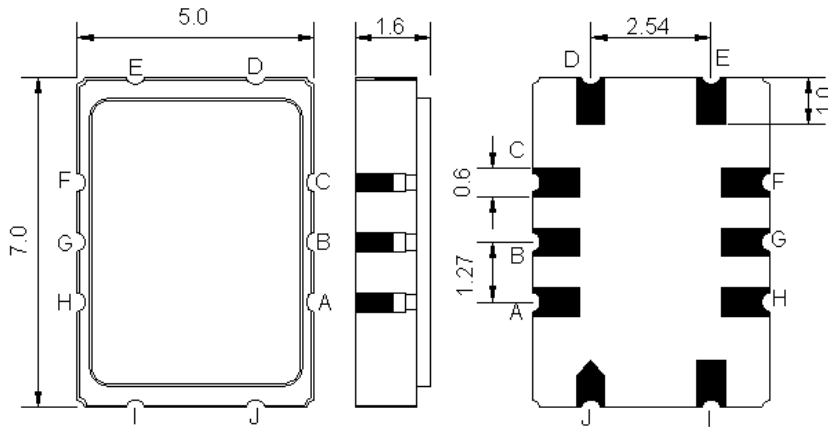
Notes

- 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)



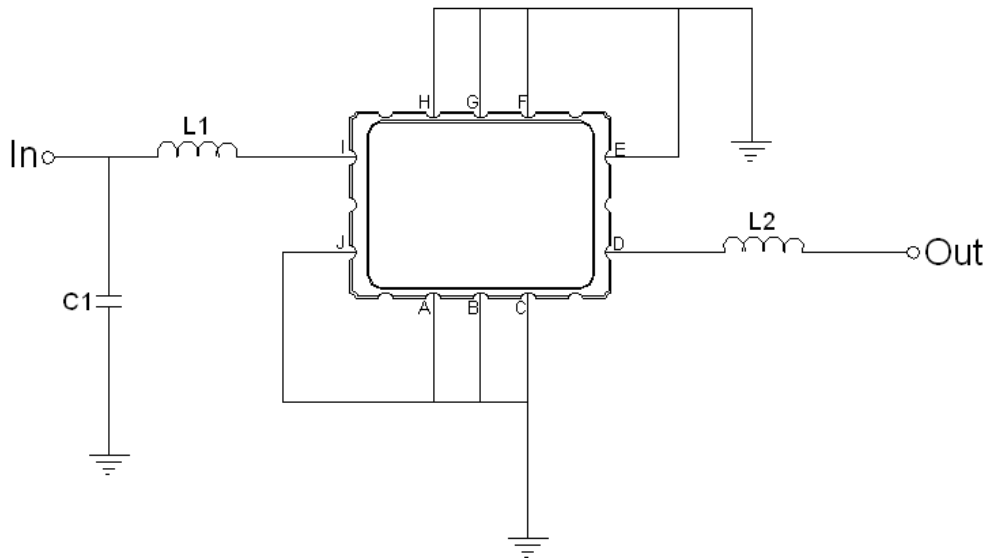


Mechanical Dimensions (mm)



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

Test Circuit



Test Fixture & Values	
Input	L1=18 nH, C1=13 pF
Output	L2=12 nH
Source/Load Impedance	50 Ω

**Maximum Ratings**

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	85
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.

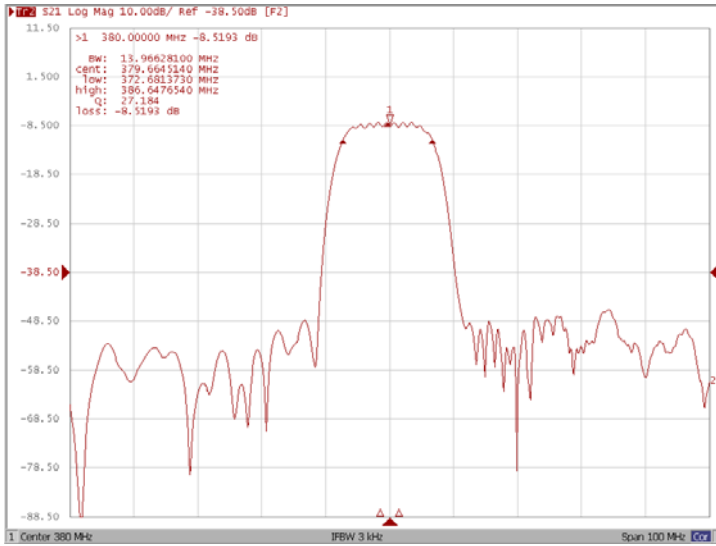
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	380.00	-
Insertion Loss at Fo	dB	-	8.50	10.00
Amplitude Ripple Variation (Fo ± 1.5 MHz)	dB _{p-p}	-	0.90	1.50
Group Delay Variation (Fo ± 1.5 MHz)	nsec	-	75	120
Absolute Delay at Fo	μsec	-	0.36	-
Temperature Coefficient	ppm/°C	-	-86	-
Bandwidth at -3.0 dB	MHz	-	13.90	-
Bandwidth at -40.0 dB	MHz	-	22.60	24.00
Attenuation (Fo + 140MHz)	dB	50	55	-

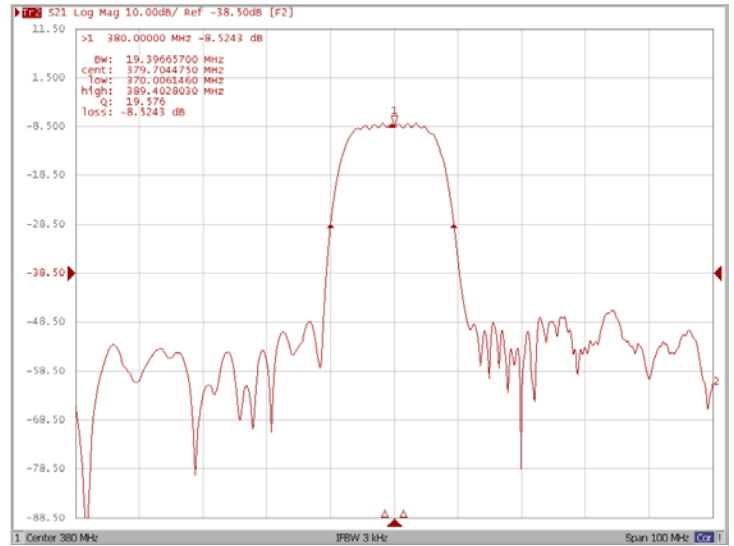


Frequency Response

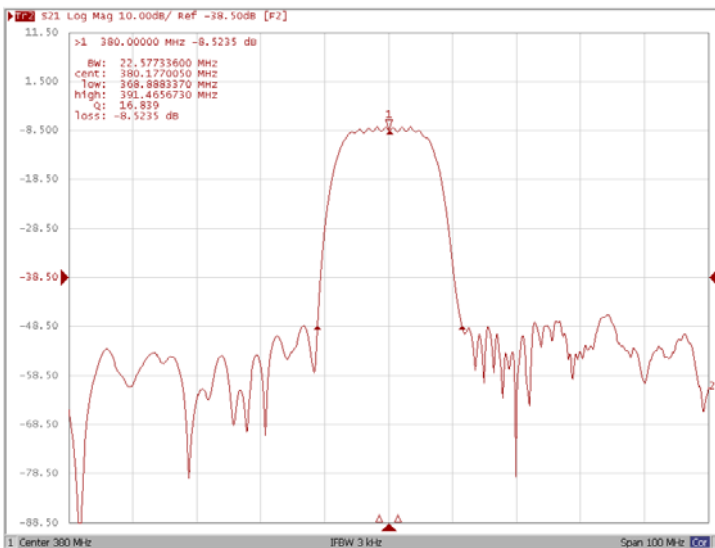
Bandwidth at -3.0 dB



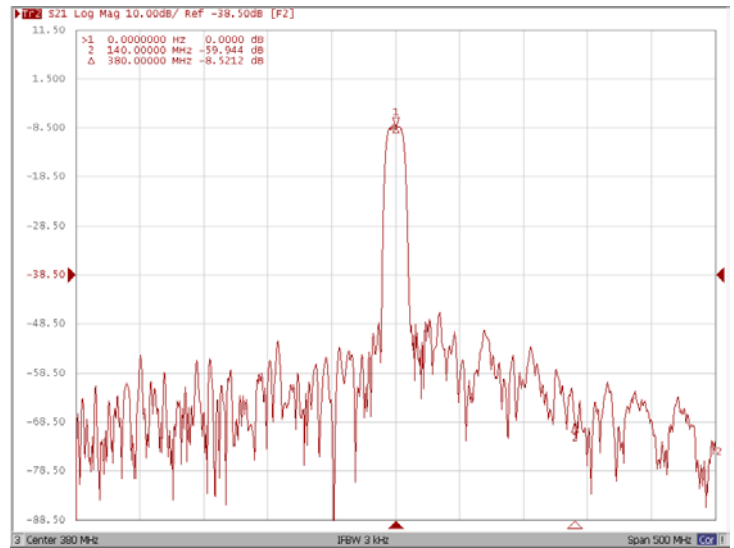
Bandwidth at -20.0 dB



Bandwidth at -40.0 dB

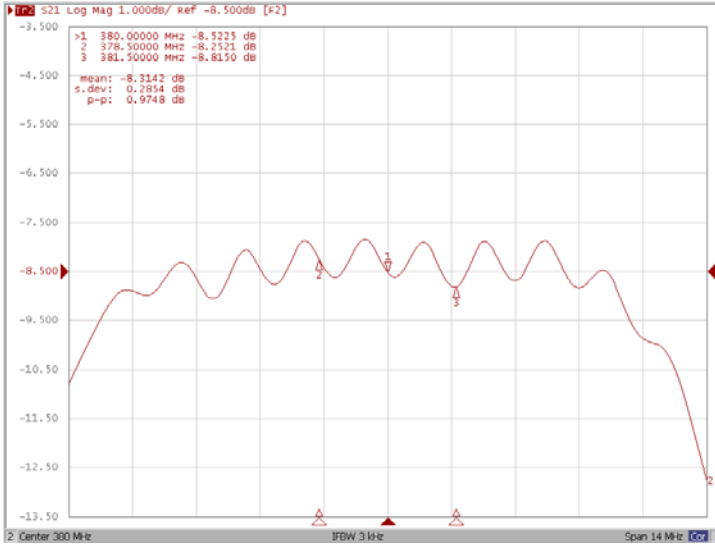


Attenuation at Fo +140MHz

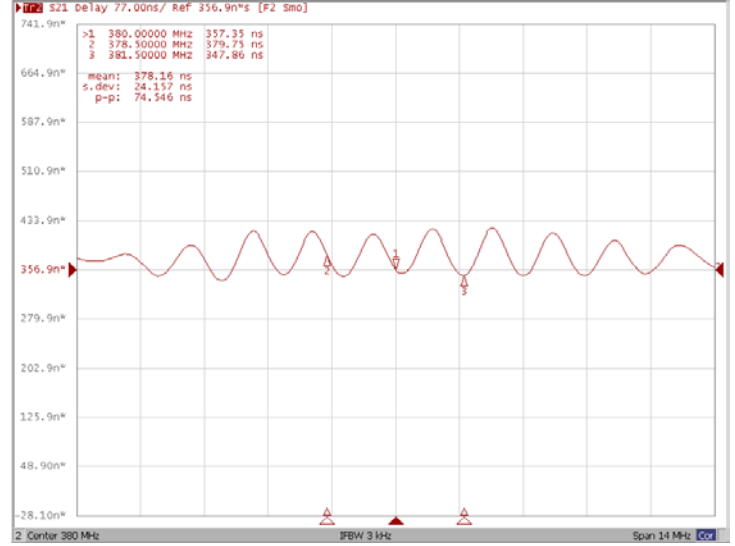




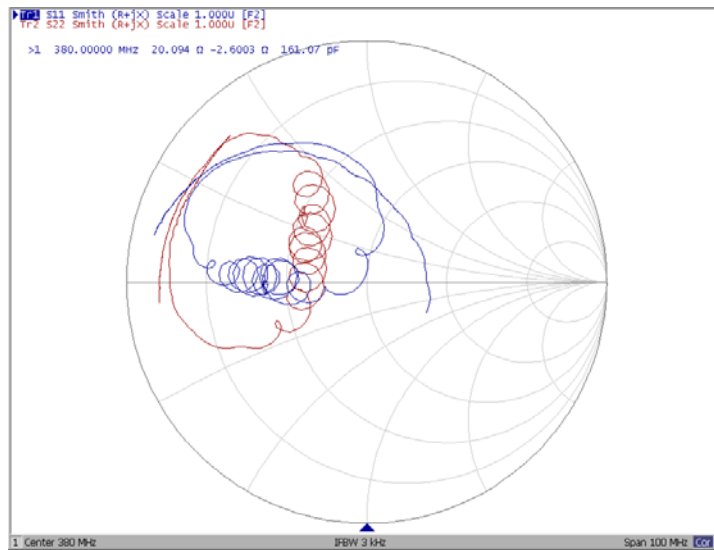
Ripple Variation Fo±1.5MHz



Group Delay Variation Fo±1.5MHz



Smith Chart





VSWR

