PRODUCT SPECIFICATION

REV A January 2011

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
807-SL133.2M-02A	133.2 MHz IF SAW Filter 430 KHz Bandwidth

Specification Contents

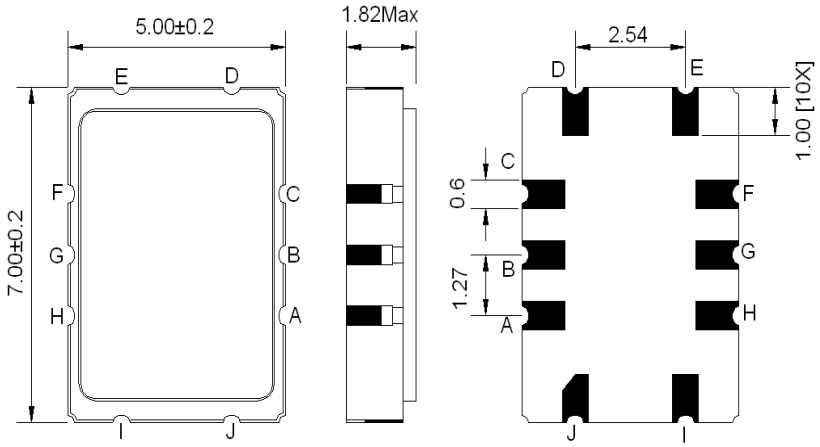
- Mechanical Dimensions
- Test Circuit
- Maximum Ratings
- Electrical Specification
- Frequency Response
- Smith Chart

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)

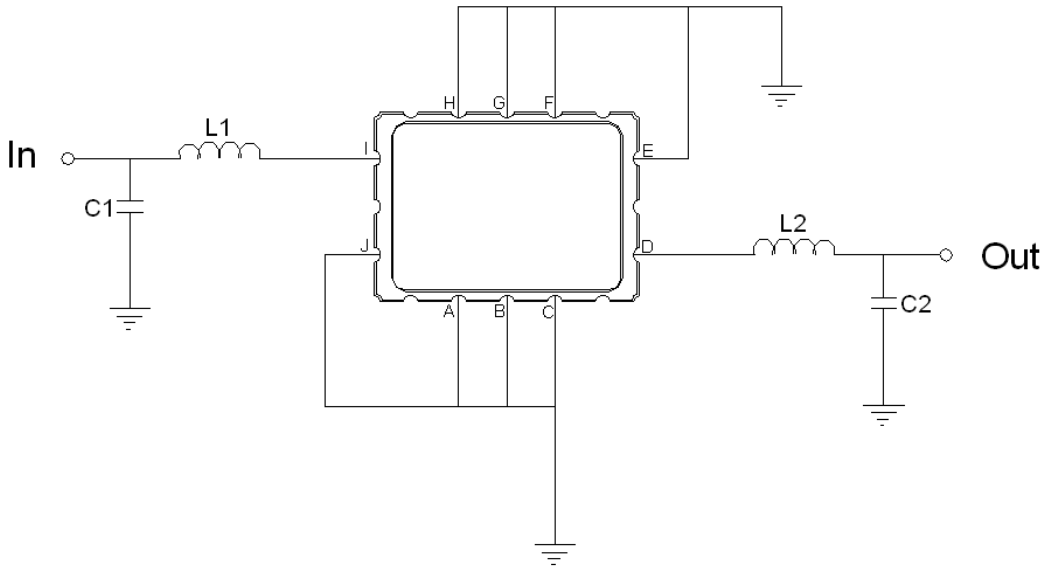
Oscilent Corporation
Telephone: 1.949.252.0522
Fax: 1.949.252.0522
Email: sales@oscilent.com

Mechanical Dimensions (mm)

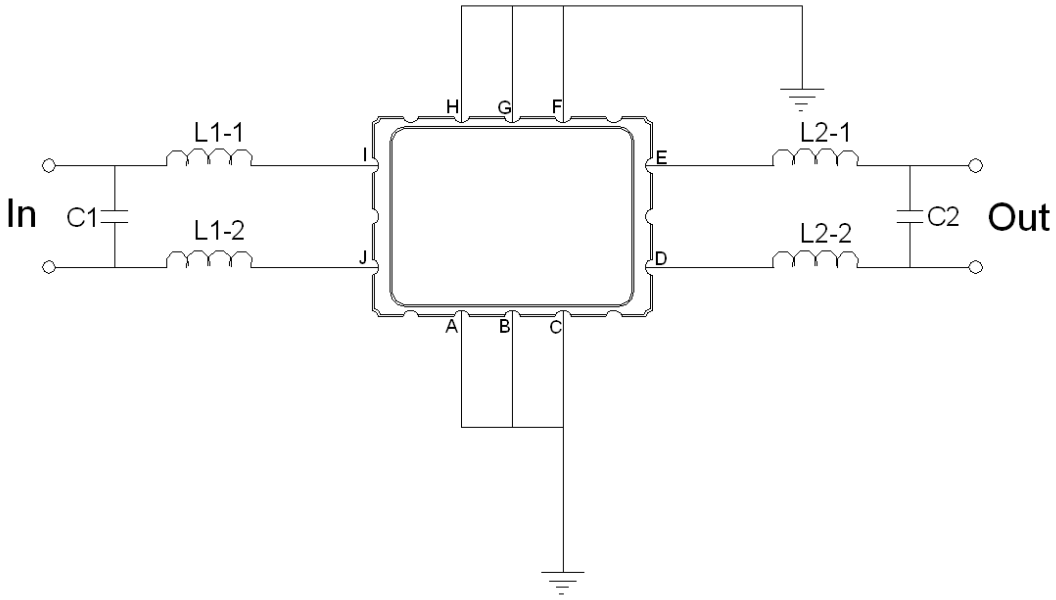


Pin Description	
A, B, C, F, G, H	Ground
I	Input
J	Input or Ground
D	Output
E	Output or Ground

Test Circuit



Test Fixture & Values	
Input	L1=408nH, C1 = 27pF
Output	L2=408nH, C2 = 27pF
Source/Load Impedance	50 Ω



Test Fixture & Values	
Input	L1-1=L1-2=280nH, C1 = 10pF
Output	L2-1=L2-2=280nH, C2 = 9pF
Source/Load Impedance	200 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/balanced ended)(1)	Ω	-	50/200	-
Load Impedance (single/balanced ended)(1)	Ω	-	50/200	-

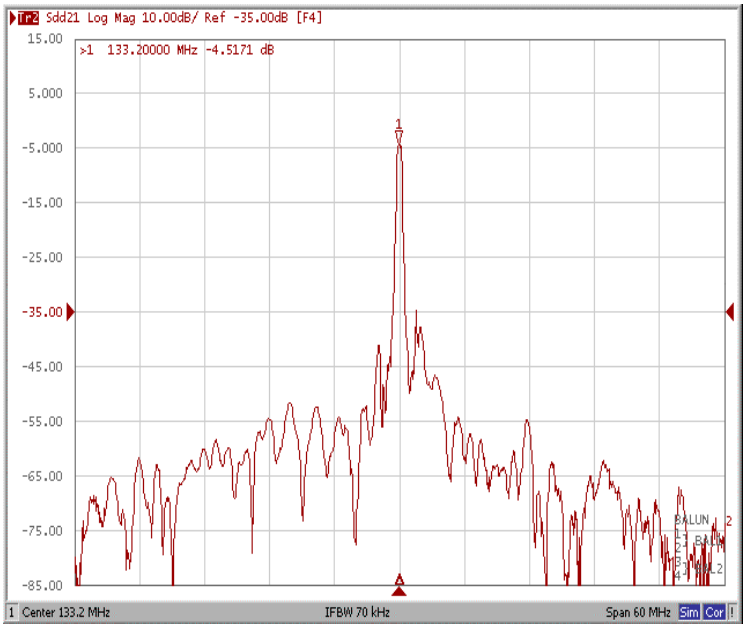
Notes: With Matching Network (Ref. Testing Environment Circuit as shown above).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Electrical Specification

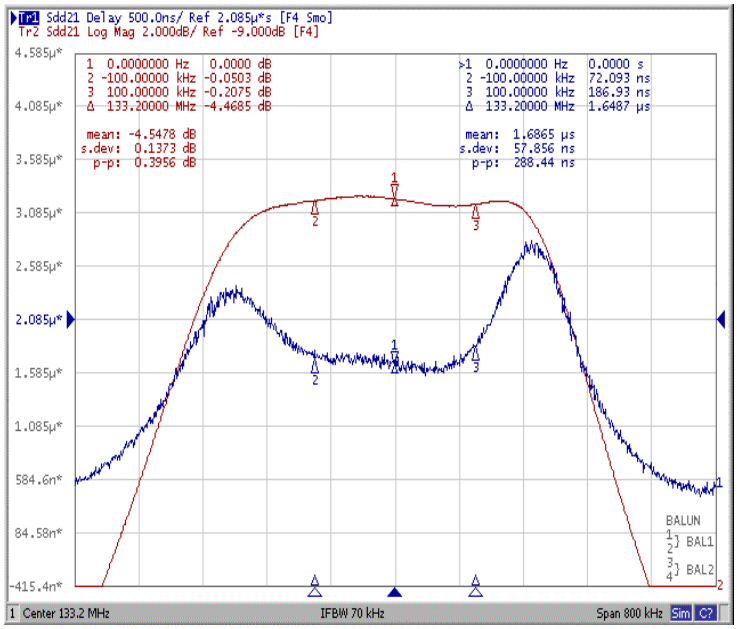
Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	133.2	-
Insertion Loss at Fo (including losses in matching circuit)	dB	-	4.5	8.0
Group Delay variation at Fo ± 100 KHz	nsec	-	300	1000
Amplitude ripple variation at Fo ± 100 KHz	dB_{p-p}	-	0.50	1.00
Temperature Coefficient	ppm/°C	-	-0.036	-
Bandwidth at -3dB	KHz	-	430	-
Relative Attenuation				
Fc ±250KHz ~ Fc ±400KHz	dBc	3	5	-
Fc ±400KHz ~ Fc ±600KHz	dBc	15	16	-
Fc ±600KHz ~ Fc ±800KHz	dBc	20	28	-
Fc ±800KHz ~ Fc ±3.0MHz	dBc	29	31	-
Fc ±3.0MHz ~ Fc ±7.0MHz	dBc	35	42	-
Fc ±7.0MHz ~ Fc ±30MHz	dBc	40	47	-

Frequency Response

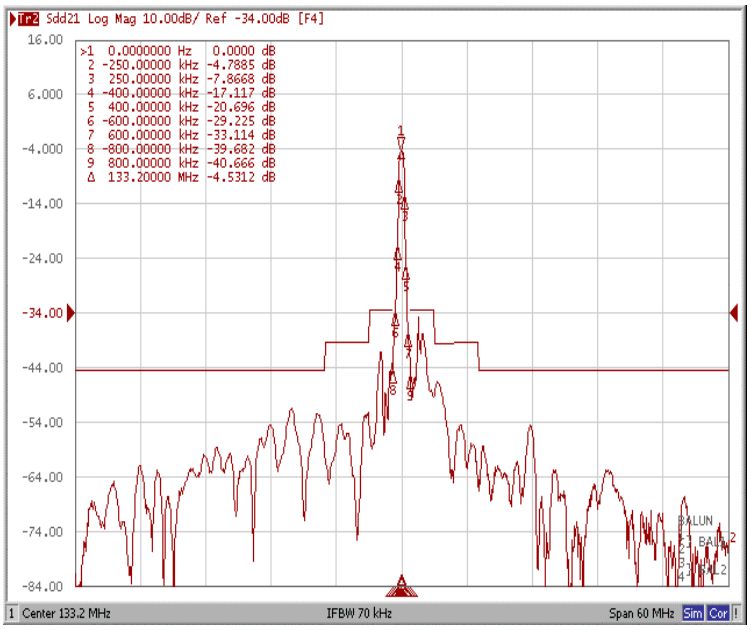
Frequency Response



Ripple & Group Delay Variation Fo±100 KHz



Relative Attenuation



Smith Chart