



Total Solution Provider in Saw Device

SL06102AV

61.38MHz IF SAW Filter
2.60MHz Bandwidth
Revision 0 : 23. April. 2009



- Electrical Characteristics
 - Package Dimensions
 - Testing Environment
 - Frequency Characteristics
-

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□ Electrical Characteristics

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	-
Package type & size	V			
Length x Width	mm ²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

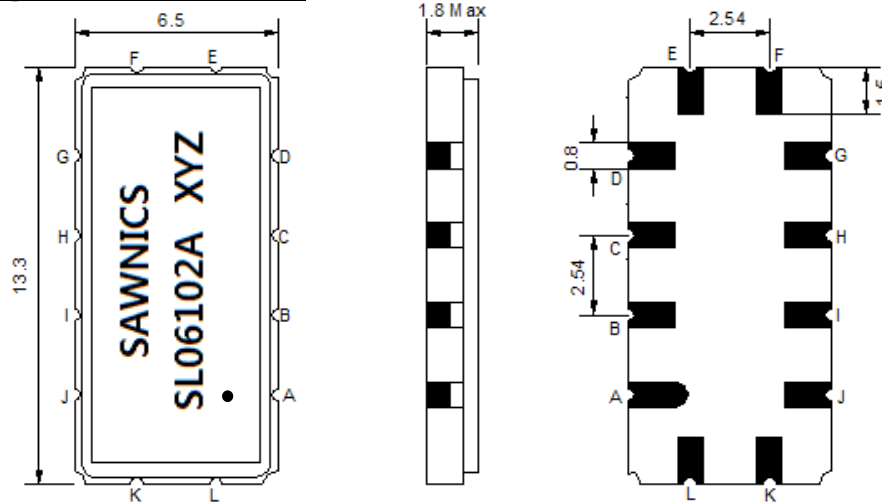
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	61.38	-
Insertion Loss at Fo	dB	-	9.50	11.0
Group Delay Variation (Fo±0.75MHz)	nsec	-	70	150
Absolute Delay Time at Fo	usec	-	1.59	-
Temperature Coefficient	ppm/°C	-	-20	-
Amplitude Ripple (Fo±0.75MHz)	dB	-	0.3	0.7
Bandwidth at -1dB	MHz	2.00	2.60	-
Bandwidth at -3dB	MHz	-	3.18	-
Bandwidth at -40dB	MHz	-	5.30	5.90
Relative Attenuation				
1.0MHz ~ 57.38MHz	dB	40	50	-
65.38MHz ~ 150.0MHz	dB	40	45	-

Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).

Those impedances could be modified with different impedance values and/or structures, if necessary.

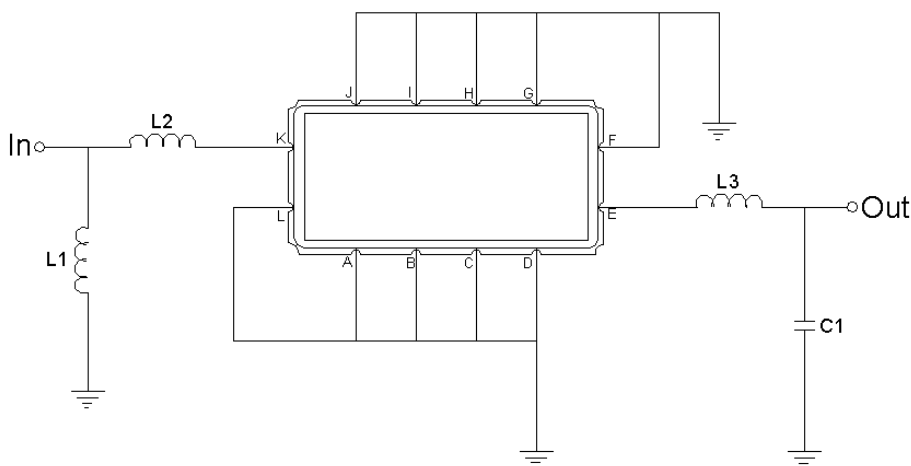
Package Dimensions



- ① SAWNICS: Brand
- ② SL06102A: Model Name
- ③ X : Date Code (Year)
- ④ Y : Date Code (Month)
- ⑤ Z : Date Code (Date)
- : Index Dot

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

Testing Environment



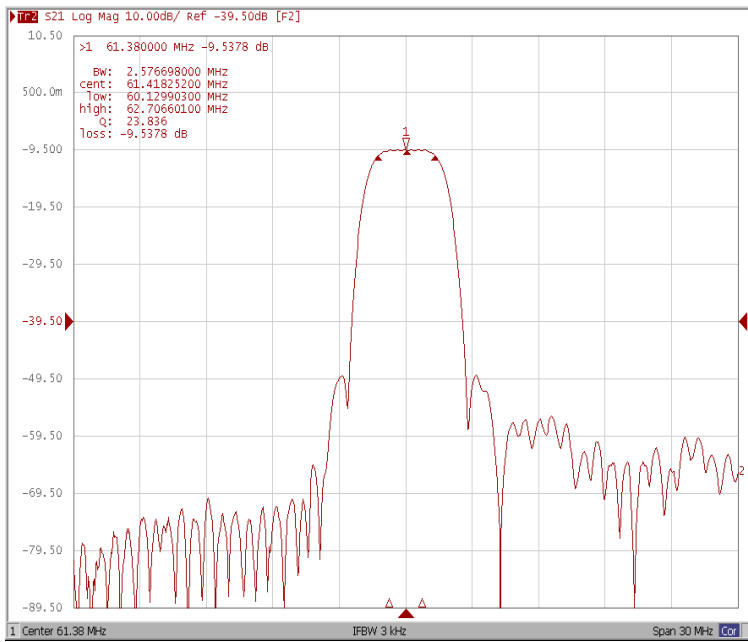
Test Fixture & Values	
Input	L1 = 68 nH, L2 = 33nH
Output	L3 = 150 nH, C1 = 75pF
Source/Load Impedance	50 Ω



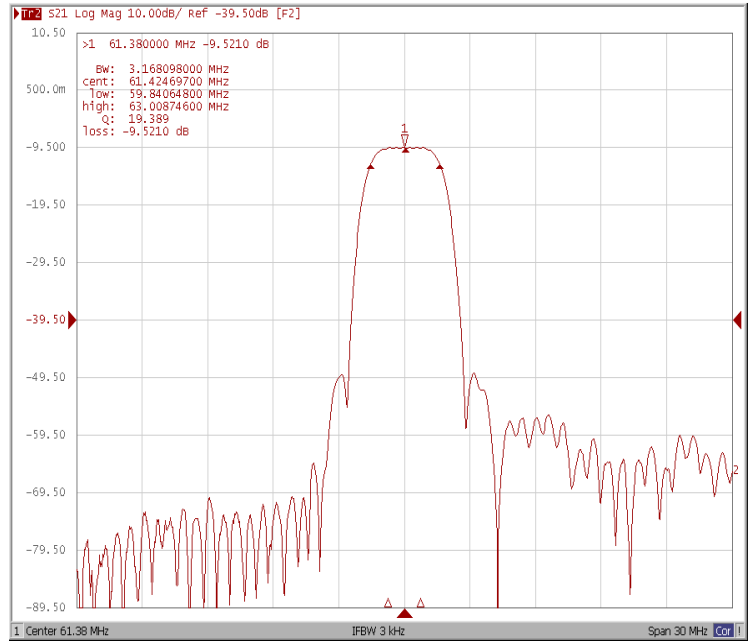
Frequency Characteristics

Frequency Response

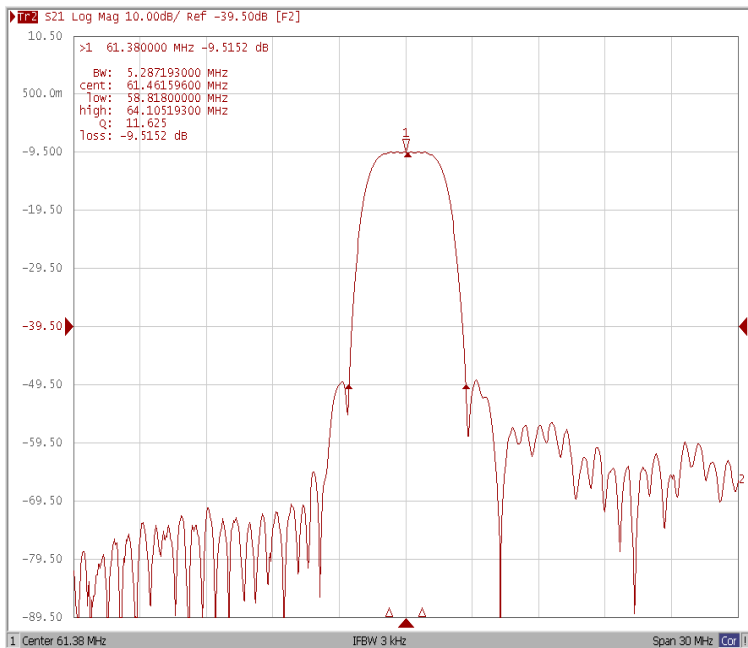
Bandwidth at -1.0 dB



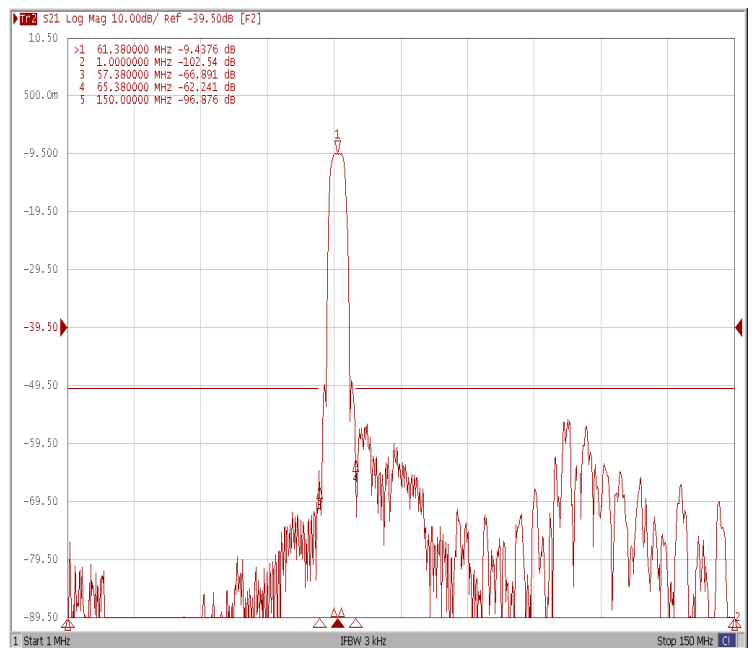
Bandwidth at -3.0 dB



Bandwidth at -40.0 dB



Relative Attenuation

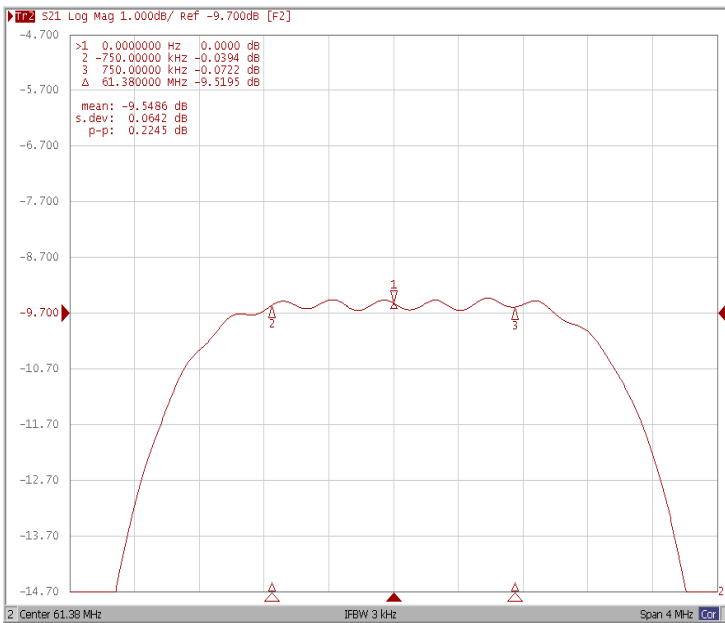




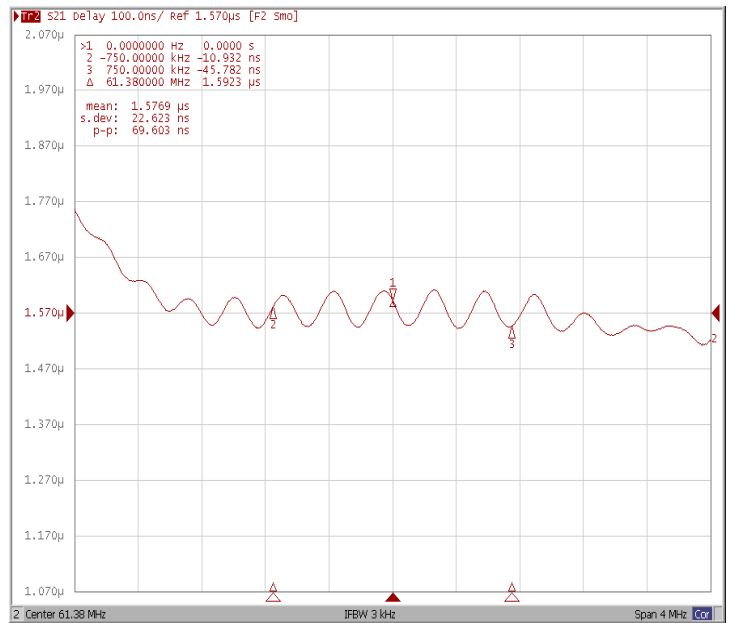
Frequency Characteristics

Frequency Response

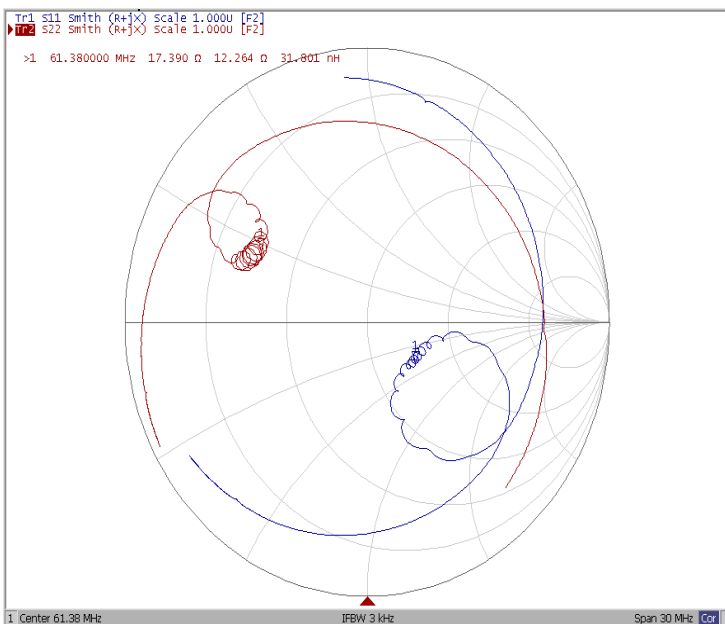
Ripple Variation($F_o \pm 0.75\text{MHz}$)



Group Delay Variation($F_o \pm 0.75\text{MHz}$)



Smith Chart



VSWR

