



*Total Solution Provider in Saw Device*

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# SL6011V

60.0MHz IF SAW Filter

12.0MHz Bandwidth

Revision 1: 15. November. 2007

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

### Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	V			
Length x Width	mm <sup>2</sup>	-	13.3 x 6.5	-
Height	mm	-	-	1.8

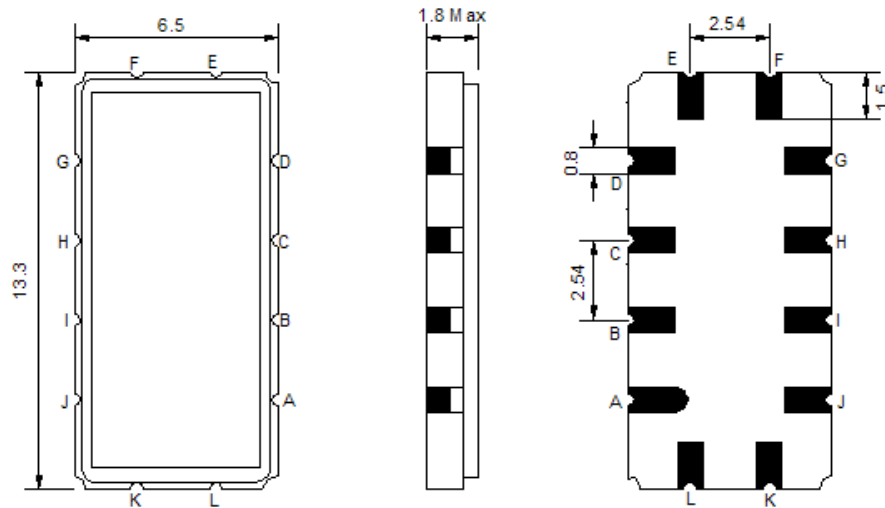
### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	60.0	-
Insertion Loss at Fo	dB	-	11.8	13.0
Amplitude Ripple Variation at Fo±5.0MHz	dB <sub>p-p</sub>	-	0.4	1.0
Group Delay Variation at Fo±5.0MHz	nsec	-	38	70
Absolute Delay at Fo	µsec	-	1.1	-
Temperature Coefficient	ppm/°C	-	-94	-
Bandwidth at -1.0 dB	MHz	10.0	12.0	-
Bandwidth at -3.0 dB	MHz	-	12.7	-
Bandwidth at -40.0 dB	MHz	-	15.3	17.0
<b>Relative Attenuation:</b>				
Fo±9.75 MHz	dB	40	45	
Fo±10 MHz	dB	40	48	
Fo±20 MHz	dB	45	55	
DC ~ 45.25MHz	dB	40	45	-
74.75 ~ 120MHz	dB	40	45	-
VSWR (55.0 ~ 65.0MHz)	dB	-	3.0	4.5

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

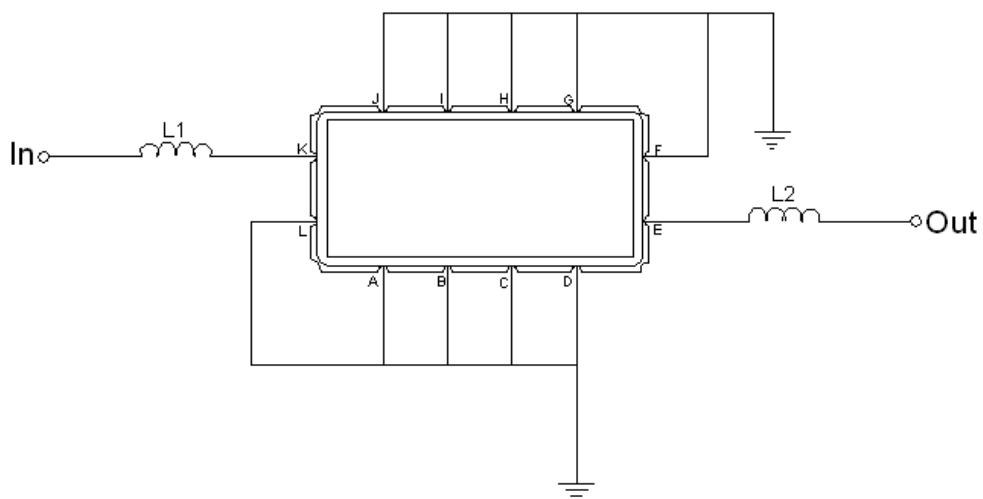
Those impedances could be modified with different impedance values and/or structures, if necessary.

**□ Package Dimensions**



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

**□ Testing Environment**

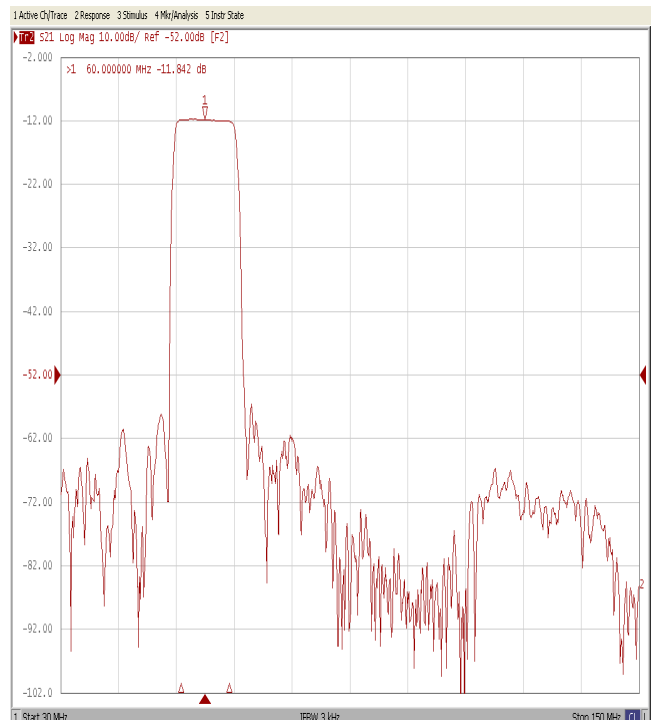
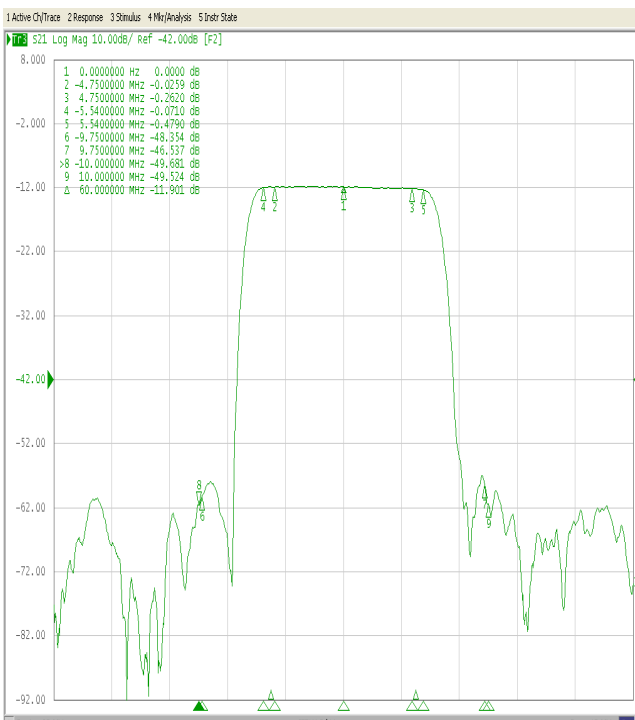
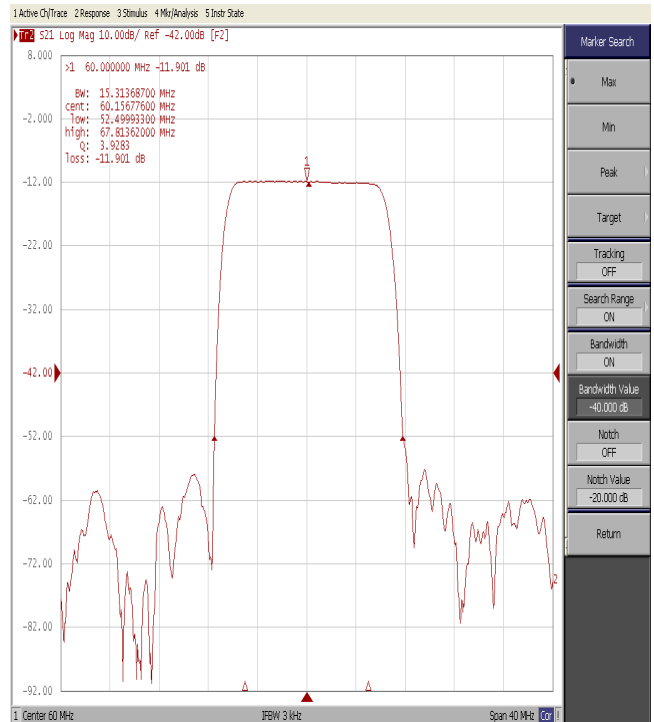
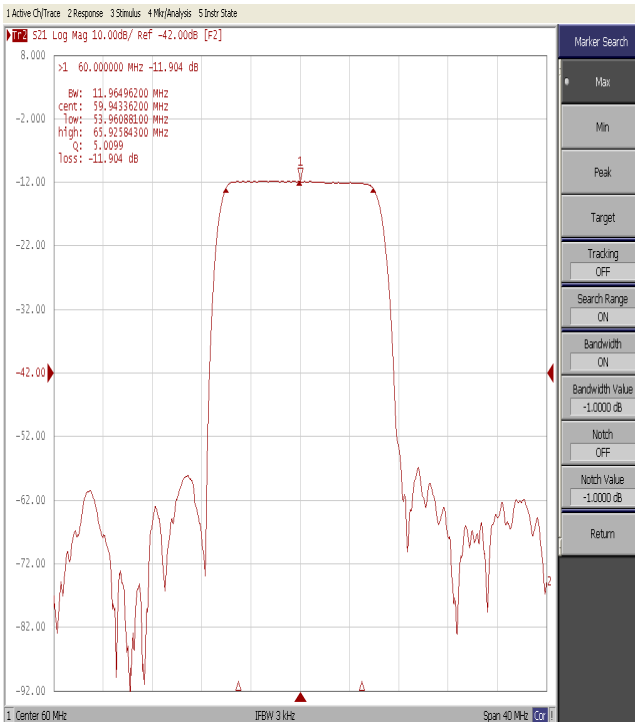


Test Fixture & Values	
Input	L1=270 nH , Q>40
Output	L2=220 nH , Q>40
Source/Load Impedance	50 Ω



### Frequency Characteristics

#### Frequency Response





### Frequency Response

