



*Total Solution Provider in Saw Device*

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# SL1428V

Low-Loss 140MHz IF SAW Filter  
28.0MHz Bandwidth  
Revision 1 : 29. Oct. 2007



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

### Maximum Ratings

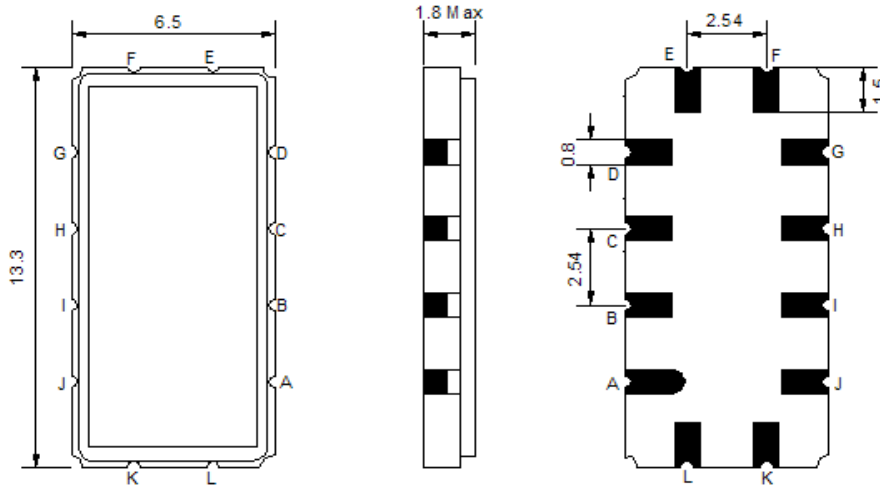
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package 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	-	140.0	-
Insertion Loss at Fo	dB	-	14.5	16.0
Temperature Coefficient	ppm/°C	-	-86	-
Amplitude Ripple within fo ±13.0 MHz	dB <sub>p-p</sub>	-	0.45	1.0
Group Delay Variation within fo ±13.0 MHz	nsec	-	50	80
Absolute Delay at Fo	µsec	-	0.91	-
Bandwidth at -1.0 dB	MHz	27.5	28.0	-
Bandwidth at -3.0 dB	MHz	28.5	29.0	-
Bandwidth at -40.0 dB	MHz	-	32.8	33.5
<b>Relative Attenuation:</b>				
Lower sidelobe	dB	45	50	-
Upper sidelobe	dB	45	50	-

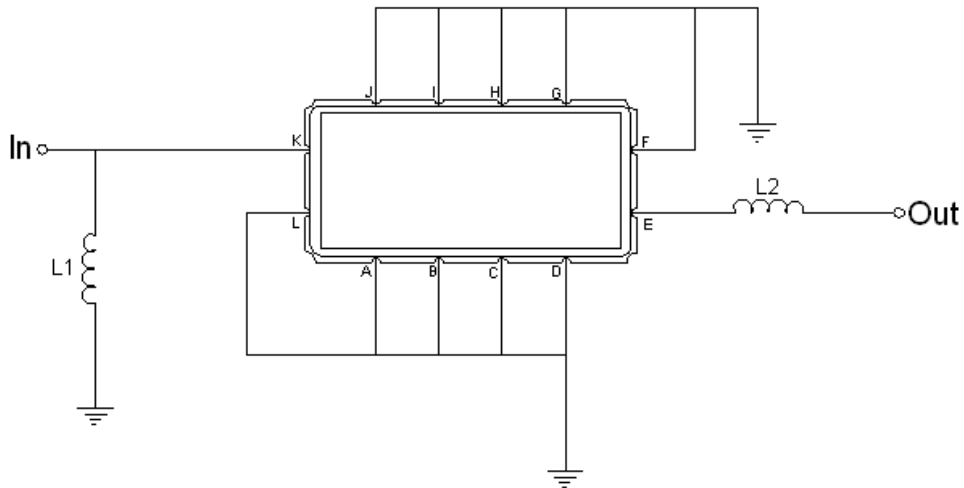
**Notes :** (1) With Matching Network (Ref. Testing Environment Circuit as shown below).  
Those impedances could be modified with different impedance values and/or structures, if necessary.

**□ 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=22nH Q >40
Output	L2=27nH Q.>40
Source/Load Impedance	50 Ω

## □ Frequency Characteristics

### Frequency Response

