SL9635V

96.0MHz IF SAW Filter
36MHz Bandwidth
Revision 1: 29. Oct. 2007

RoHS compliance
Pb free

- ❒ Electrical Characteristics
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❒ Electrical Characteristics

Maximum Ratings

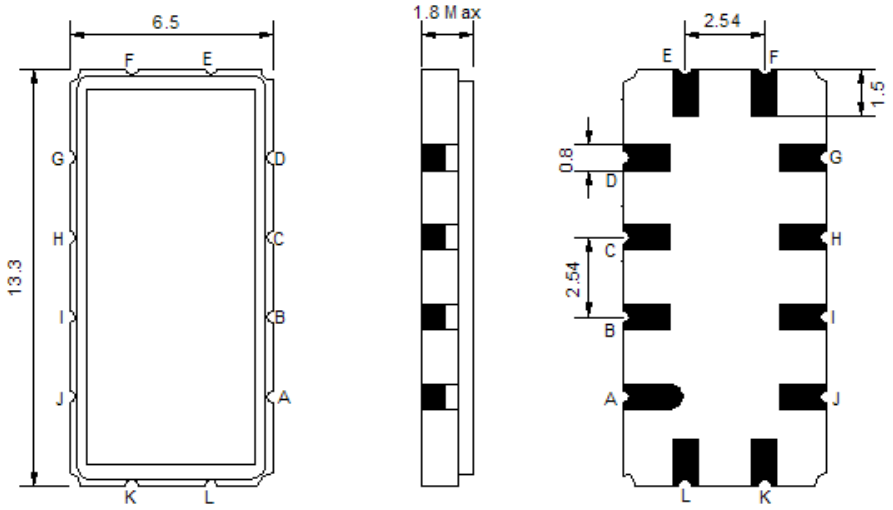
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	V			
Length x Width	mm²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	96.0	-
Insertion Loss at Fo	dB	-	16.8	18.5
Temperature Coefficient	ppm/°C	-	-86	-
Amplitude Ripple Variation	dB_{p-p}	-	1.2	2.0
Amplitude Ripple within fo ±2.5 MHz	dB_{p-p}	-	0.4	0.7
Group Delay Variation	nsec	-	65	120
Group Delay Variation within fo ±2.5 MHz	nsec	-	38	70
Absolute Delay at Fo	µsec	-	0.942	-
Bandwidth at –1.0 dB	MHz	35.0	36.0	-
Bandwidth at –3.0 dB	MHz	36.0	36.8	-
Bandwidth at –30.0 dB	MHz	-	40.0	41.0
Relative Attenuation:	dB	40	47	-
Ambient Temperature	°C	-	25	-

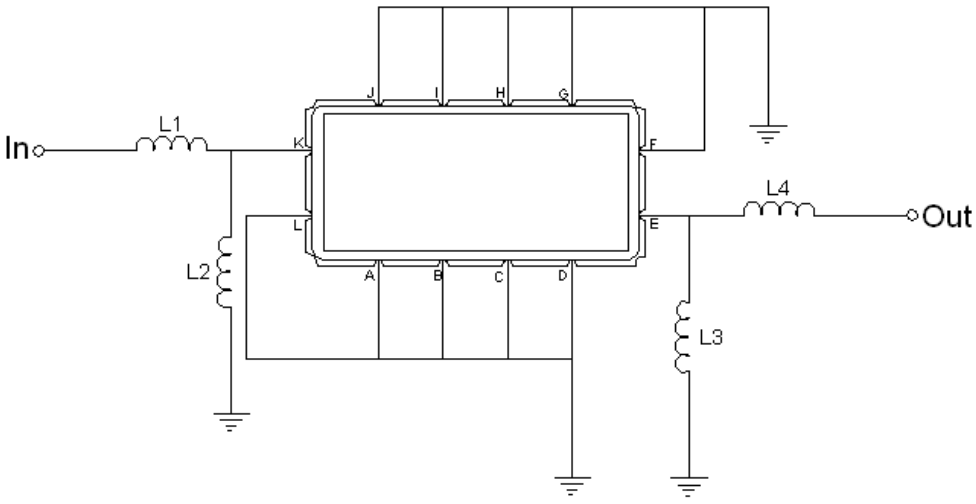
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

❒ 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=68nH , L2=56nH
Output	L3=56nH , L4=68nH
Source/Load Impedance	50 Ω

❒ Frequency Characteristics

Frequency Response