SL3002V

300MHz IF SAW Filter
3.66MHz Bandwidth
Revision 1: 29. Oct. 2007

RoHS compliance
Pb free

- ❒ Electrical Characteristics
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SAWNICS Inc.
460 Cheonheung-ri, Seonggeo-eup, Cheonan-si, Chungcheongnam-do, 330-836 / Korea.
Tel: +82 41 550 9372 / Fax: +82 41 550 9399 / www.sawnics.com

❒ Electrical Characteristics

Maximum Ratings

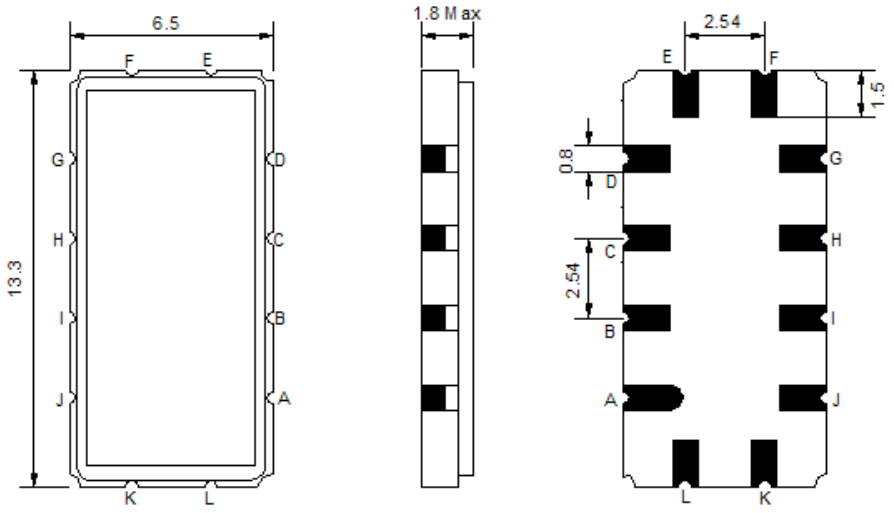
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	V			
Length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

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	300.0	-
Insertion Loss at Fo	dB	-	17.5	19.5
Temperature Coefficient	ppm/°C	-	-0.03	-
Amplitude Ripple Variation	dB_{p-p}	-	1.0	1.5
Group Delay Variation	nsec	-	150	200
Absolute Delay at Fo	µsec	-	0.509	1.2
Bandwidth at –1.0 dB	MHz	2.0	2.54	-
Bandwidth at –3.0 dB	MHz	3.0	3.66	-
Bandwidth at –40.0 dB	MHz	-	9.74	11.0
Relative Attenuation:				
Lower sidelobe	dB	50	55	-
Upper sidelobe	dB	50	55	-
Ambient Temperature	°C	-	25	-

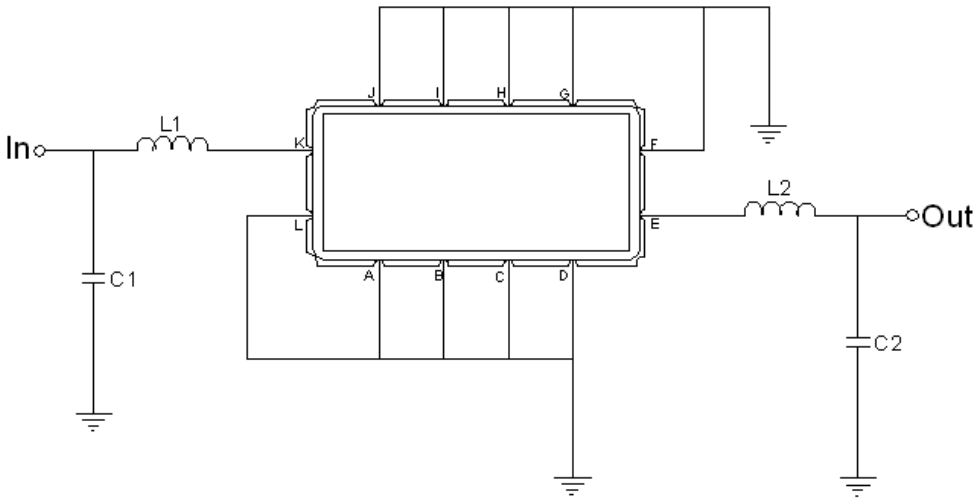
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

❒ 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=55nH , C1=23pF
Output	L2=54nH , C2=23.3pF
Source/Load Impedance	50 Ω

❒ Frequency Characteristics

Frequency Response