SL3007S

300MHz IF SAW Filter
9.20MHz Bandwidth
Revision 1: 29. Oct. 2007

RoHS compliance
Pb free

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

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

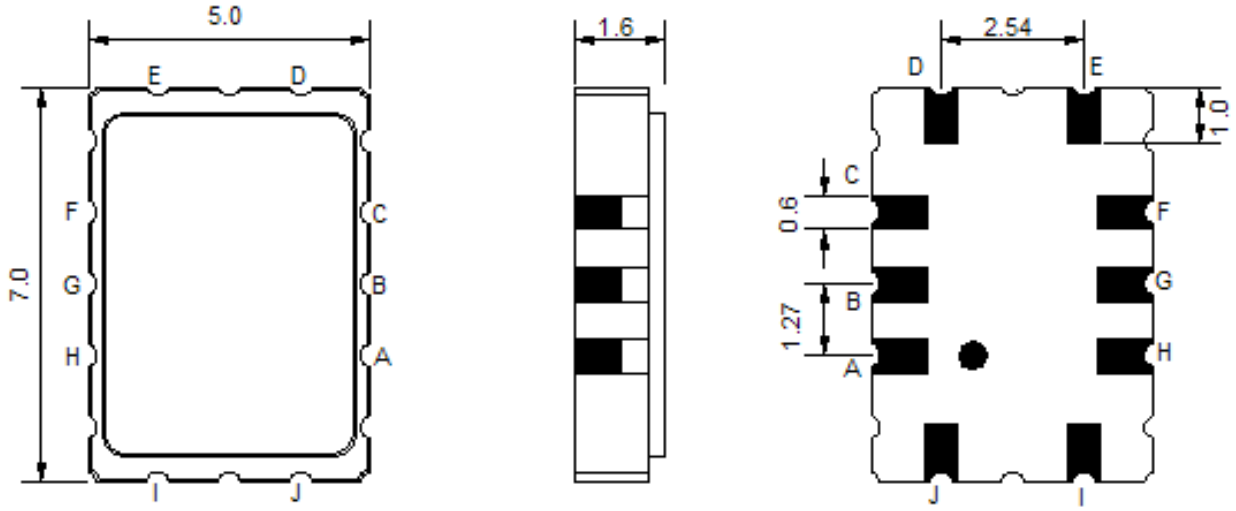
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm			10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	S			
Length x Width	mm²	-	7.0x5.0	-
Height	mm	-	-	1.6

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	300.0	-
Insertion Loss at Fo	dB	-	14.0	
Temperature Coefficient	ppm/°C	-	-23	-
Amplitude Ripple Variation	dB_{p-p}	-	0.65	1.5
Group Delay Variation	nsec	-	32	100
Absolute Delay at Fo	µsec	-	0.520	1.0
Bandwidth at –1.0 dB	MHz	7.0	7.40	-
Bandwidth at –3.0 dB	MHz	8.0	9.20	-
Bandwidth at –40.0 dB	MHz	-	15.40	17.0
Relative Attenuation:				
Lower sidelobe	dB	40	45	-
Upper sidelobe	dB	40	45	-
Ambient Temperature	°C	-	25	-

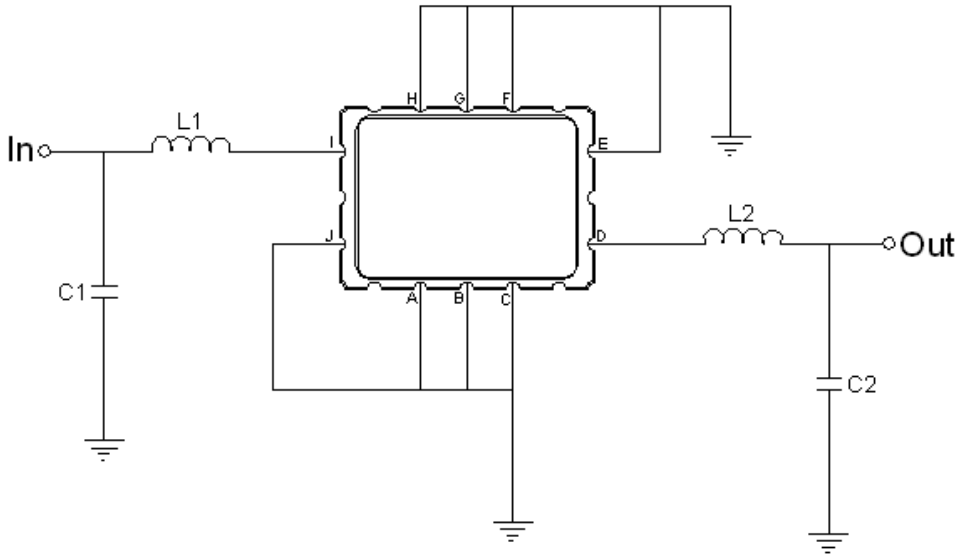
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

❒ Package Dimensions



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

❒ Testing Environment



Test Fixture & Values	
Input	L1=28nH , C1=16pF
Output	L2=25nH , C2=18pF
Source/Load Impedance	50 Ω

❒ Frequency Characteristics

Frequency Response