



Total Solution Provider in Saw Device

SL13507BS1

135.0 MHz IF SAW Filter
7.8 MHz Bandwidth
Revision 2: 1 October 2007



- 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
Operation Temperature Range	°C	-40	-	85
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	S1			
Length x Width	mm ²	-	7.0 x 5.0	-
Height	mm	-	-	1.8

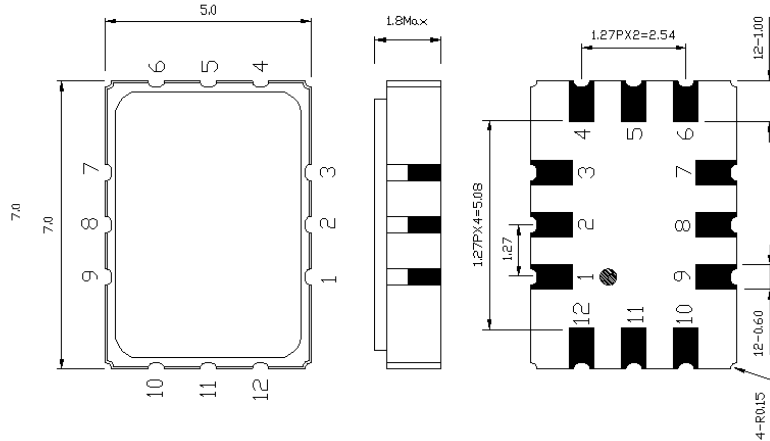
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	135.0	-
Insertion Loss at Fo	dB	-	17.0	19.0
Amplitude Ripple Variation	dB _{p-p}	-	0.5	1.0
Group Delay Variation at Fo ± 3.5 MHz	nsec	-	45	90
Absolute Delay at Fo	µsec	-	0.76	-
Temperature Coefficient	ppm/°C	-	-23	-
Bandwidth at -1.0 dB	MHz	7.5	7.8	-
Bandwidth at -3.0 dB	MHz	8.4	8.6	-
Bandwidth at -40.0 dB	MHz	-	12.5	12.8
Relative Attenuation				
Lower Sidelobe	dB	40	45	-
Upper Sidelobe	dB	40	45	-

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

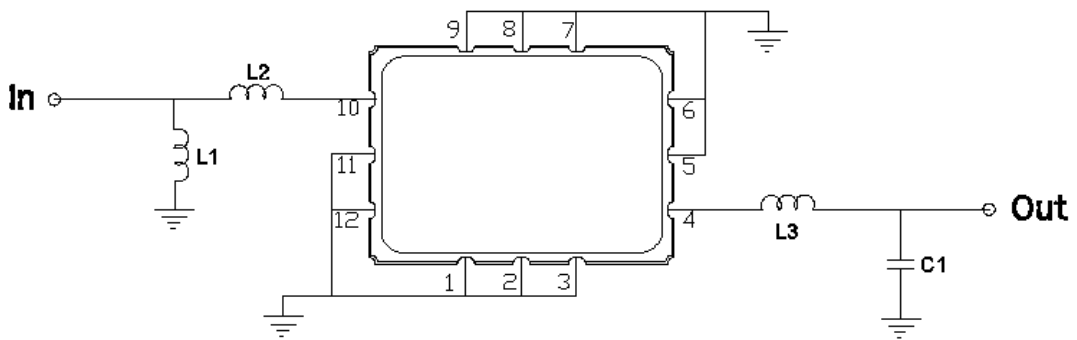
Those impedances could be modified with different impedance values and/or structures, if necessary.

□ Package Dimensions



Pin Description	
1,2,3,5,6,7,8,9,11,12	Ground
10	Input
4	Output

□ Testing Environment



Test Fixture & Values	
Input	L1=39 nH , L2=27 nH
Output	L3=150 nH , C1=20 pF
Source/Load Impedance	50 Ω

□ Frequency Characteristics

Frequency Response

