



Total Solution Provider in Saw Device

SL13007BS1

130.9MHz IF SAW Filter

7.8 MHz Bandwidth

Revision 2: 1 October 2007



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

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□ 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

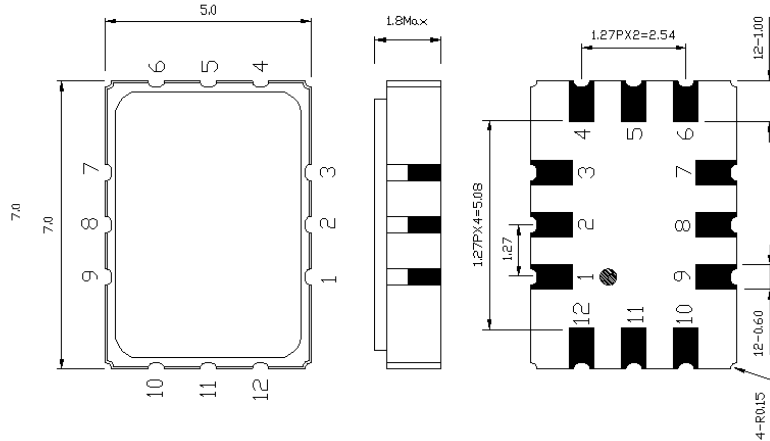
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	130.9	-
Insertion Loss at Fo	dB	-	16.0	19.0
Amplitude Ripple Variation	dB _{p-p}	-	0.5	1.0
Group Delay Variation (Fo ± 3.5 MHz)	nsec	-	60	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	8.7	-
Bandwidth at -40.0 dB	MHz	-	12.4	12.7
Relative Attenuation				
Lower Sidelobe	dB	40	45	-
Upper Sidelobe	dB	40	45	-

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

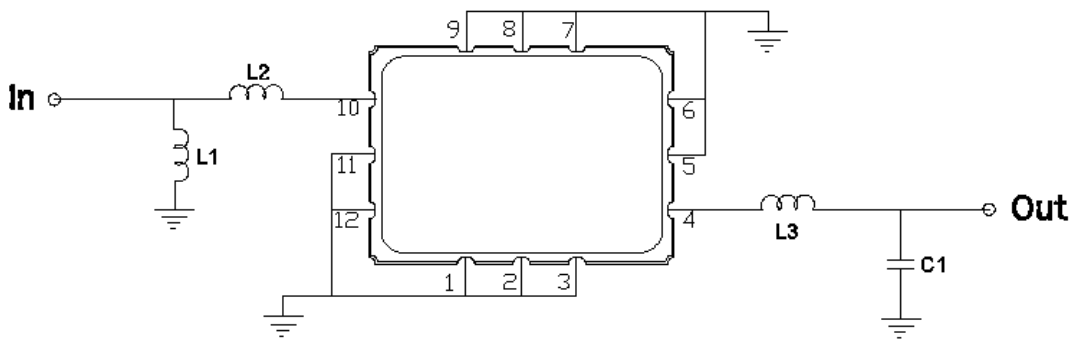
Those impedances could be modified with different impedance values and/or structures, if necessary.

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=47 nH , L2=33 nH
Output	L3=150 nH , C1=30 pF
Source/Load Impedance	50 Ω

□ Frequency Characteristics

Frequency Response

