



Total Solution Provider in Saw Device

SL12530N

Low-Loss 125MHz IF SAW Filter
31.0MHz Bandwidth
Revision 1: 29. Oct. 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	-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	mm ²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

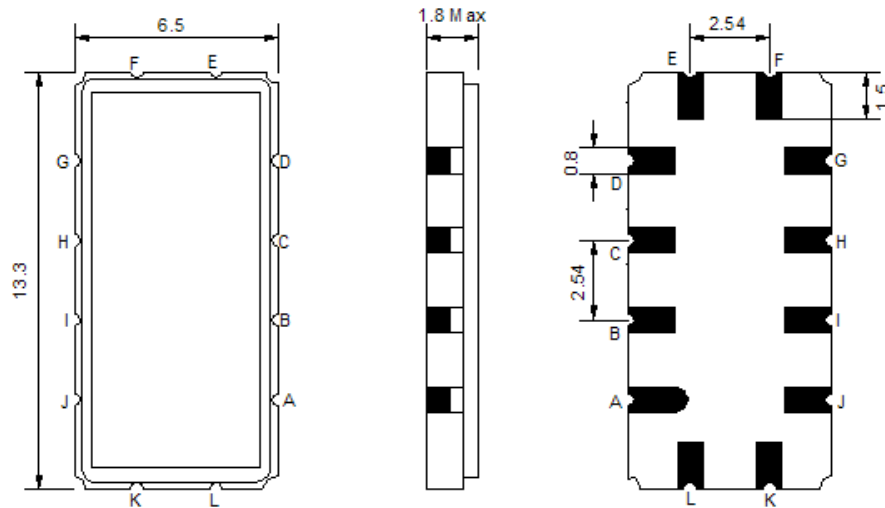
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	125.0	-
Insertion Loss at Fo	dB	-	17.6	18.5
Amplitude Ripple Variation	dB _{p-p}	-	0.35	1.0
Group Delay Variation	nsec	-	18.0	35.0
Absolute Delay at Fo	μsec	-	0.724	-
Temperature Coefficient	ppm/°C	-	-86	
Bandwidth at -1.0 dB	MHz	30.0	30.5	-
Bandwidth at -3.0 dB	MHz	31.0	31.5	-
Bandwidth at -40.0 dB	MHz	-	35.8	36.5
Relative Attenuation:				
Lower sidelobe	dB	40	48	-
Upper sidelobe	dB	40	48	-

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

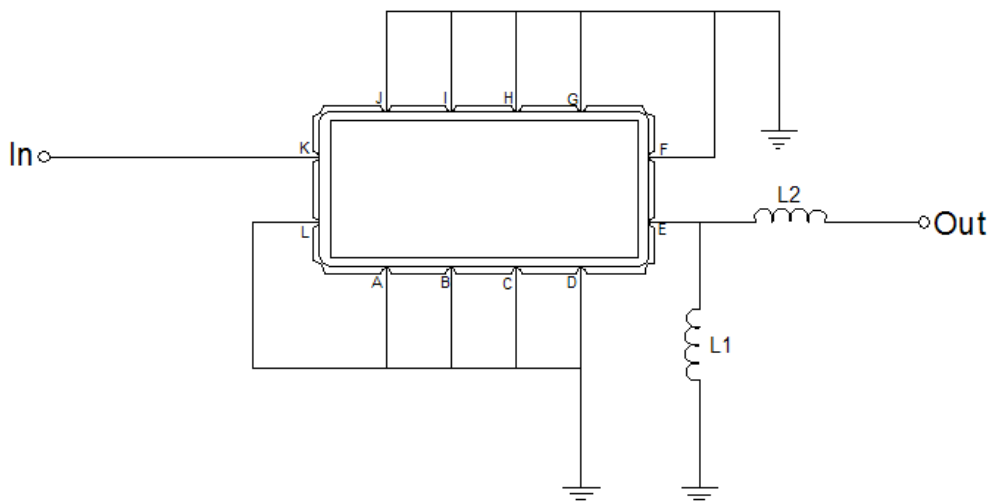
Those impedances could be modified with different impedance values and/or structures, if necessary.

□ 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	-
Output	L1=82nH, L2=82nH
Source/Load Impedance	50 Ω

□ Frequency Characteristics

Frequency Response

