



Total Solution Provider in Saw Device

SL7020V

70.0 MHz IF SAW Filter

18.99 MHz 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
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	mm ²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

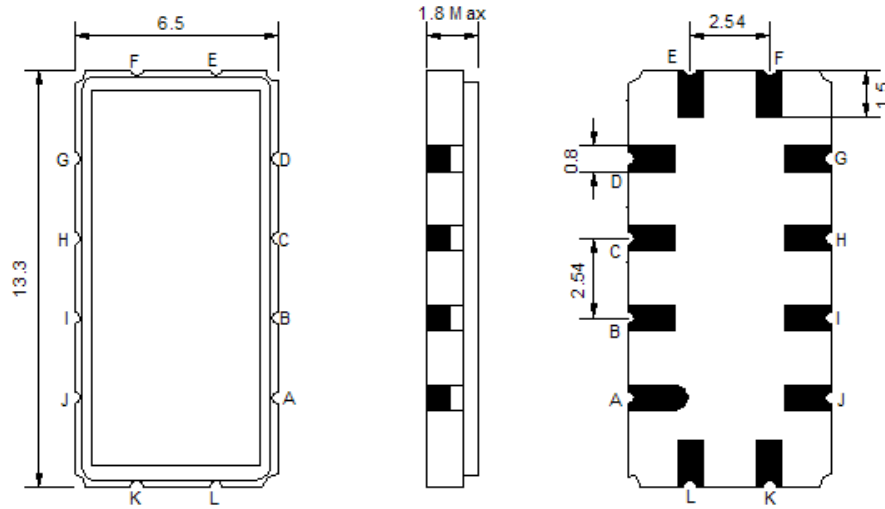
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	69.8	70.0	70.2
Insertion Loss at Fo	dB	-	15.5	16.5
Temperature Coefficient	ppm/°C	-	-84	-
Amplitude Ripple Variation at Fo ±8.2 MHz	dB _{p-p}	-	0.5	1.0
Group Delay Variation at Fo ±8.2 MHz	nsec	-	25	50
Absolute Delay at Fo	µsec	-	0.85	-
IN/OUT Return Loss at Fo	dB	-	-	-
Bandwidth at -1.0 dB	MHz	18.7	18.99	-
Bandwidth at -3.0 dB	MHz	19.7	20.05	-
Bandwidth at -40.0 dB	MHz	-	24.08	25.5
Relative Attenuation:				
10 ~ 57 MHz	dB	40	45	-
83 ~ 140 MHz	dB	40	45	-

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

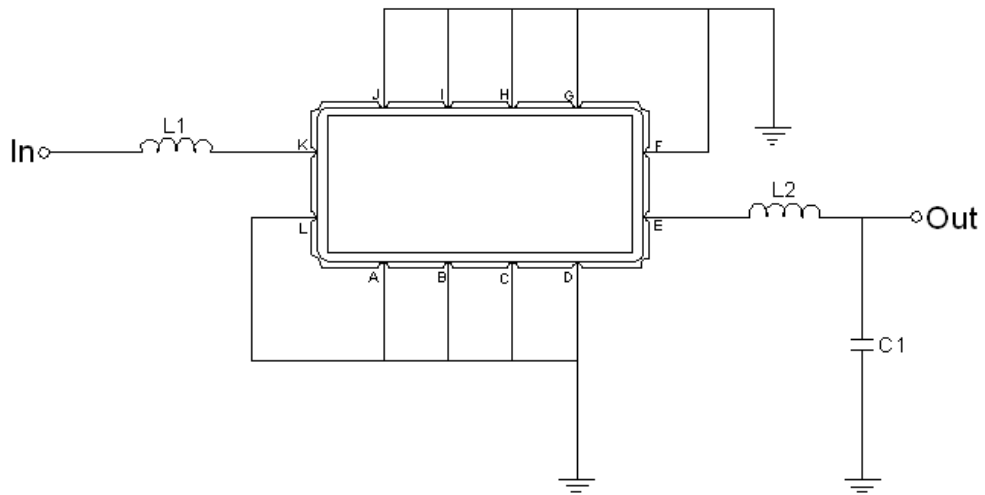
Those impedances could be modified with different impedance values and/or structures, if necessary.

□ Package Dimensions



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

□ Testing Environment



Test Fixture & Values	
Input	L1=68nH Q >40 ,
Output	L2=270nH Q.>40 , C2=20pF
Source/Load Impedance	50 Ω

□ Frequency Characteristics

Frequency Response

