



*Total Solution Provider in Saw Device*

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# SL7016V

70.0 MHz IF SAW Filter  
15.45 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) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	V			
Length x Width	mm <sup>2</sup>	-	13.3 x 6.5	-
Height	mm	-	-	1.8

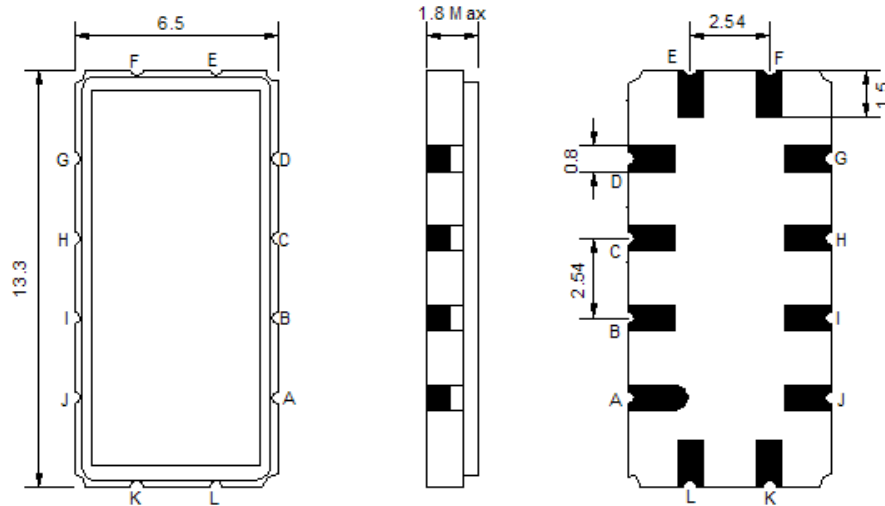
### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	69.8	70.0	70.2
Insertion Loss at Fo	dB	-	12.2	13.2
Temperature Coefficient	ppm/°C	-	-84	-
Amplitude Ripple Variation at Fo ± 7.0 MHz	dB <sub>p-p</sub>	-	0.5	1.0
Group Delay Variation at Fo ±7.0 MHz	nsec	-	50	80
Absolute Delay at Fo	µsec	-	0.88	-
IN/OUT Return Loss at Fo	dB	-	-	-
Bandwidth at -1.0 dB	MHz	15.2	15.45	-
Bandwidth at -3.0 dB	MHz	16.0	16.42	-
Bandwidth at -40.0 dB	MHz	-	20.17	21.0
<b>Relative Attenuation:</b>				
from 10 to 59.5 MHz	dB	40	43	-
from 82 to 140 MHz	dB	40	43	-

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

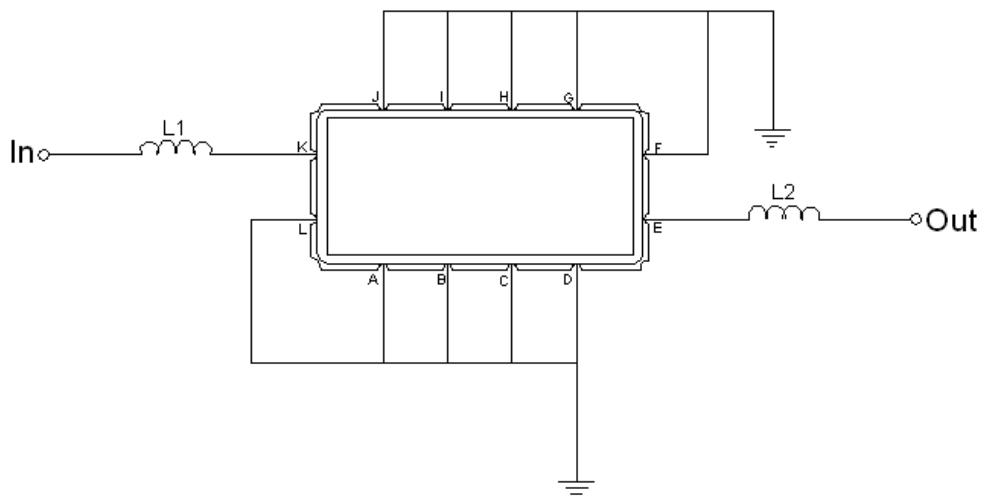
Those impedances could be modified with different impedance values and/or structures, if necessary.

**□ 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=220nH Q >40
Output	L2=220nH Q.>40
Source/Load Impedance	50 Ω

**□ Frequency Characteristics**

Frequency Response

