

- 70.0 MHz IF SAW Filter / 18.99 MHz Bandwidth
- Revision 1: 29 Oct. 2007

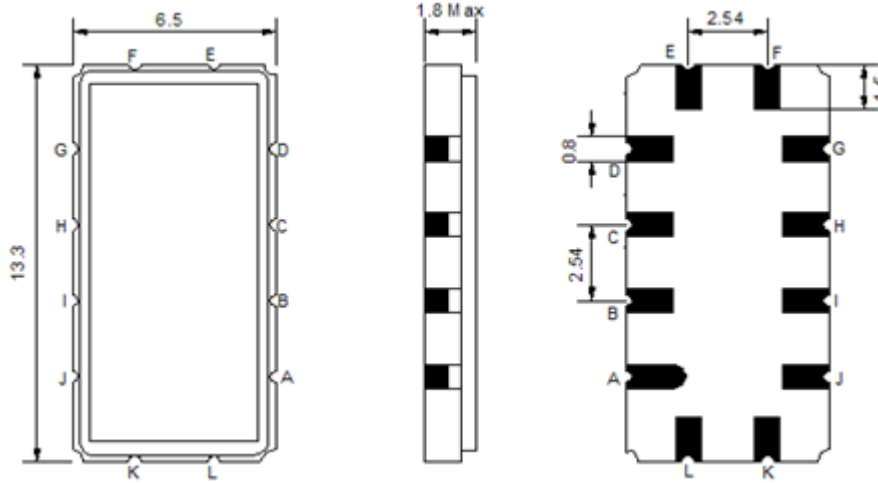
Electrical Characteristics

MAXIMUM RATING				
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	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	-

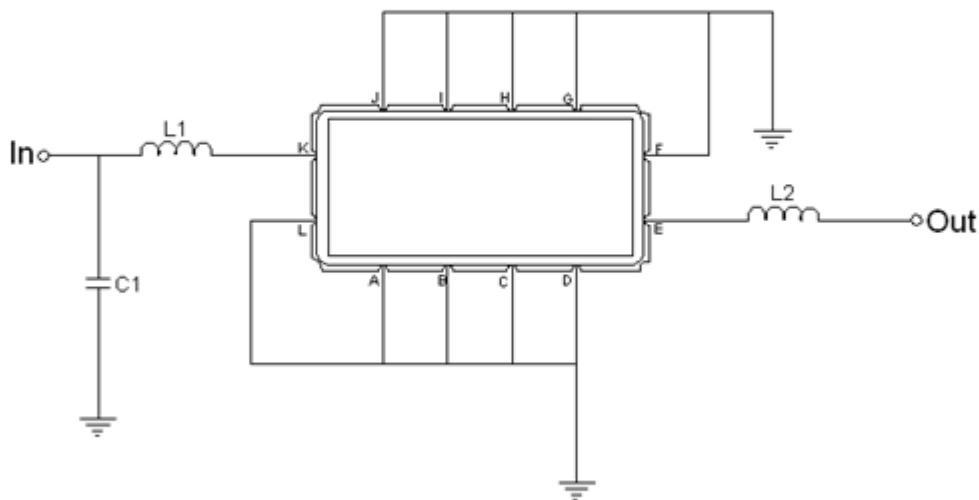
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

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=220nH Q >40, C1=20pF
Output	L2=180nH Q >40
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

