- **Low-Loss 140.00 MHz IF SAW Filter / 9.4 MHz Bandwidth**
- **Revision 1: 29 Oct. 2007**

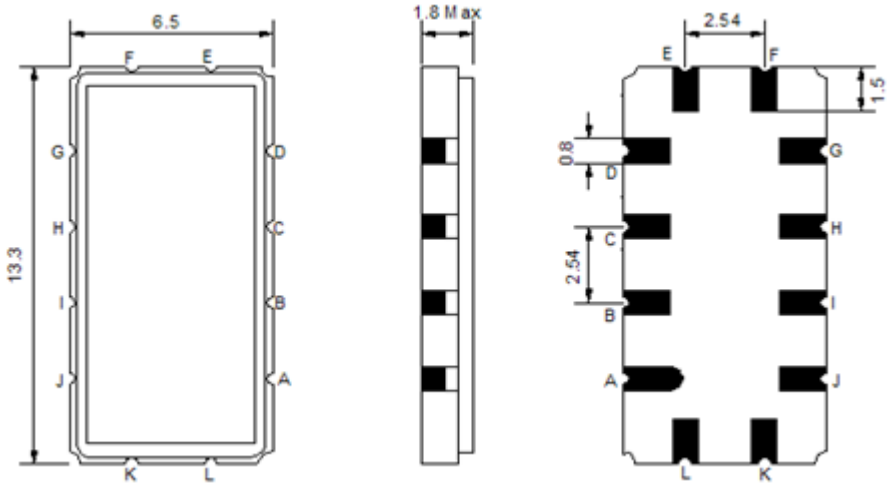
Electrical Characteristics

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	mm²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Center Frequency (Fo)	MHz	139.6	140.0	140.4
Insertion Loss at Fo	dB	-	10.5	11.5
Temperature Coefficient	ppm/°C	-	-86	-
Amplitude Ripple within fo ±3.6 MHz	dB_{p-p}	-	0.7	1.0
Group Delay Variation within fo ±3.6 MHz	nsec	-	100	150
Absolute Delay at Fo	µsec	-	1.03	-
Bandwidth at –1.5 dB	MHz	8.9	9.3	-
Bandwidth at –3.0 dB	MHz	9.4	9.9	-
Bandwidth at –35.0 dB	MHz	-	13.5	14.5
Relative Attenuation:				
from 10 to 132 MHz	dB	40	48	-
from 149 to 260 MHz	dB	40	45	-

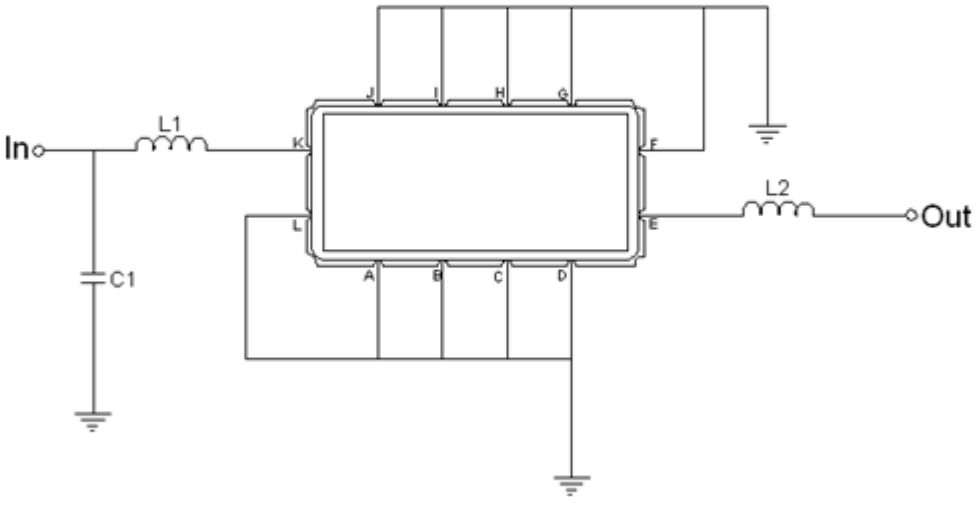
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



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

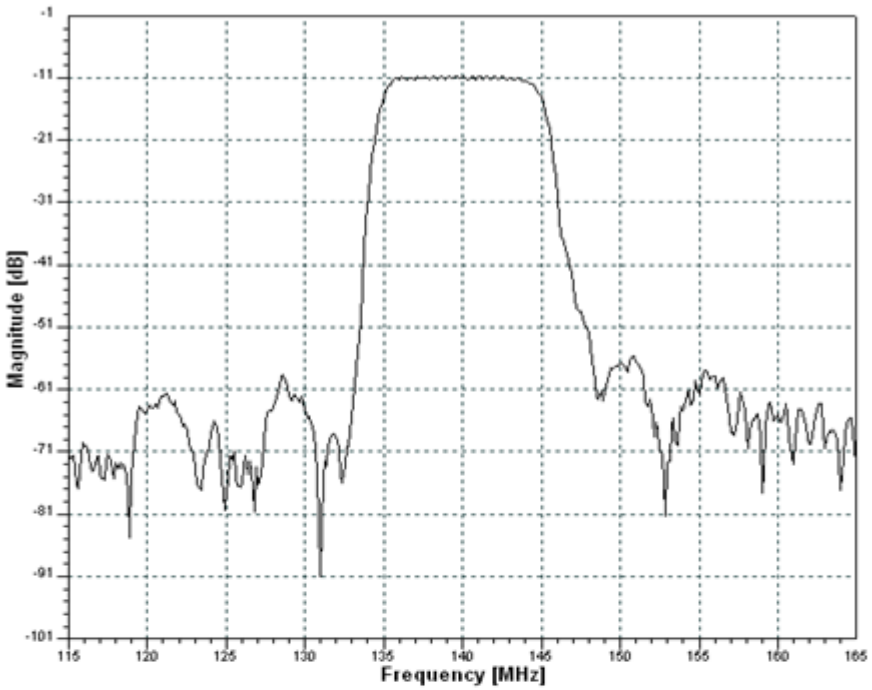
Testing Environment

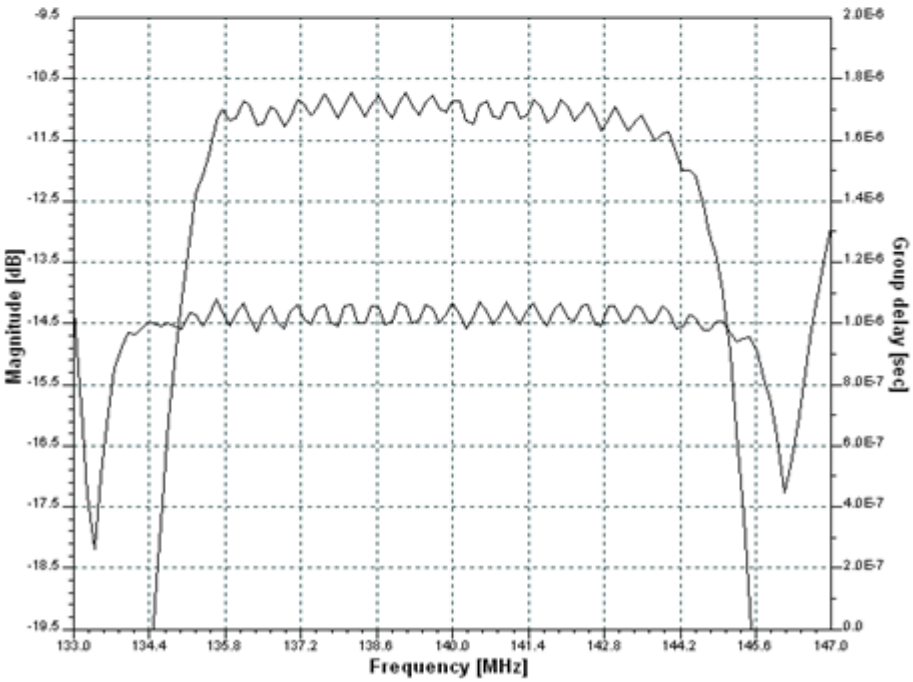


Test Fixture & Values	
Input	L1=82nH Q >40, C1=30pF
Output	L2=56nH Q >40
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response





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