

- 140.00 MHz IF SAW Filter / 18.0 MHz Bandwidth
- Revision 1: 29 Oct. 2007

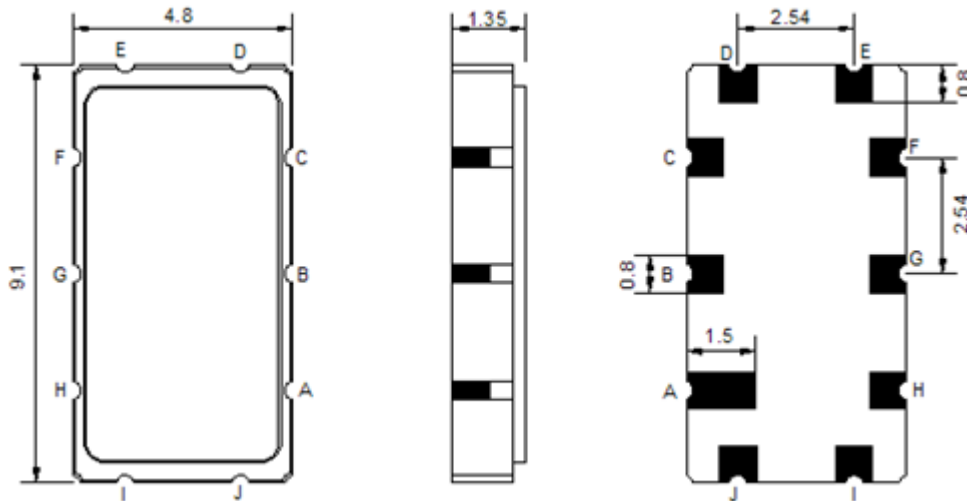
Electrical Characteristics

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	T			
Length x Width	mm ²		9.1 x 4.8	
Height	mm		1.5	-

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	140.0	-
Insertion Loss at Fo	dB	-	8.5	11.0
Temperature Coefficient	ppm/°C	-	-86	-
Amplitude Ripple Variation	dB _{p-p}	-	0.6	1.0
Group Delay Variation	nsec	-	55	100
Absolute Delay at Fo	μsec	-	0.88	-
Bandwidth at -1.0 dB	MHz	17.2	18.2	-
Bandwidth at -3.0 dB	MHz	18.0	19.2	-
Bandwidth at -35.0 dB	MHz	-	22.8	25.0
Relative Attenuation: (Ref 140MHz)				
100 MHz ~ 124 MHz	dB	40	46	-
156 MHz ~ 180 MHz	dB	40	44	-

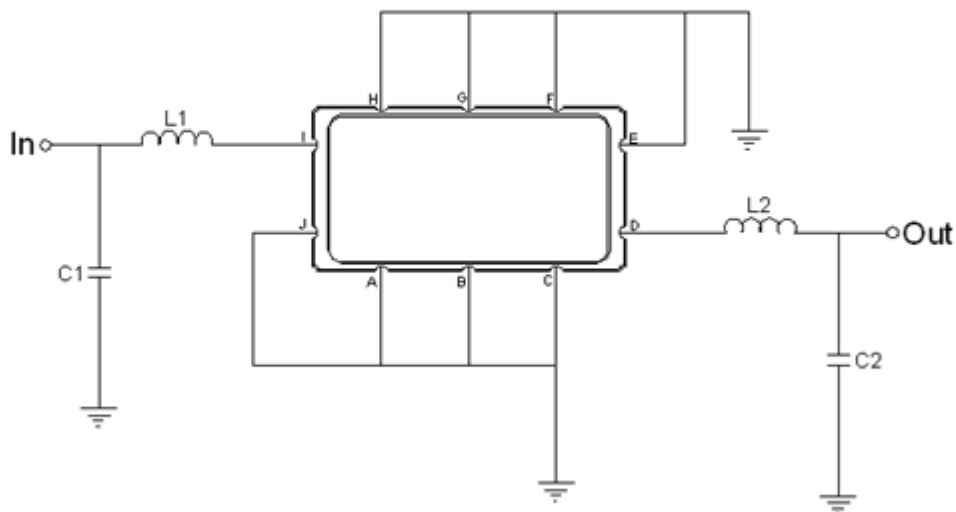
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



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

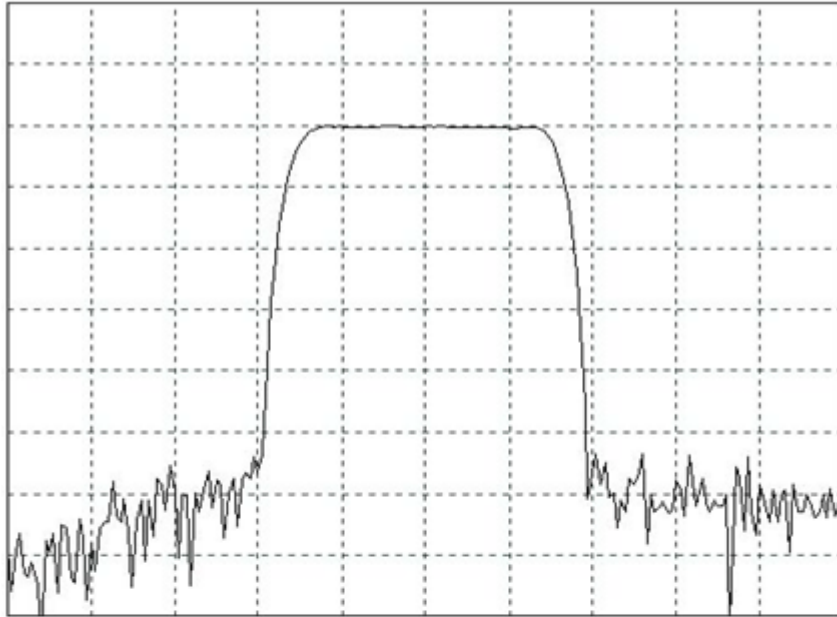
Testing Environment



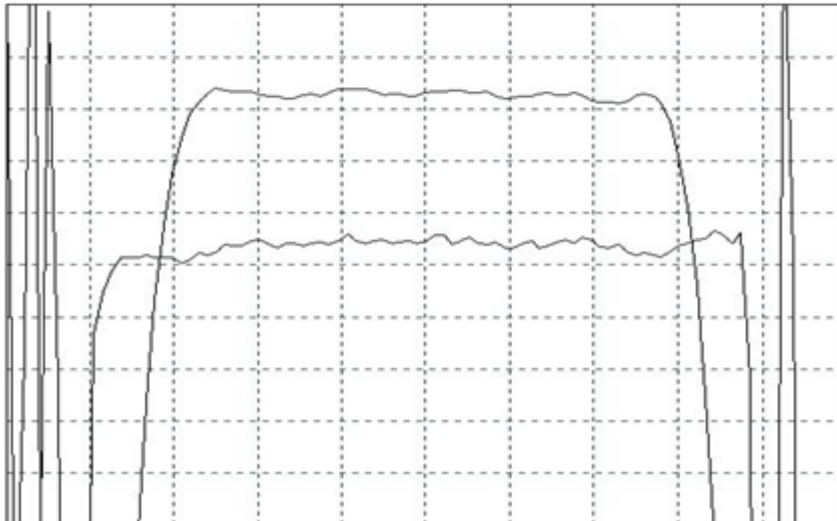
Test Fixture & Values	
Input	L1 = 39 nH , C1 = 43 pF
t _{put}	L2 = 39 nH , C2 = 43 pF
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response



Horizontal : 2.5MHz/Div
Vertical : 10 dB/Div



Horizontal : 1.2 MHz/Div
Vertical : 1 dB/Div
Vertical : 100 ns/Div

Smith Chart
