

- 100.0 MHz IF SAW Filter / 0.47 MHz Bandwidth
- Revision 1: 29. Oct. 2007

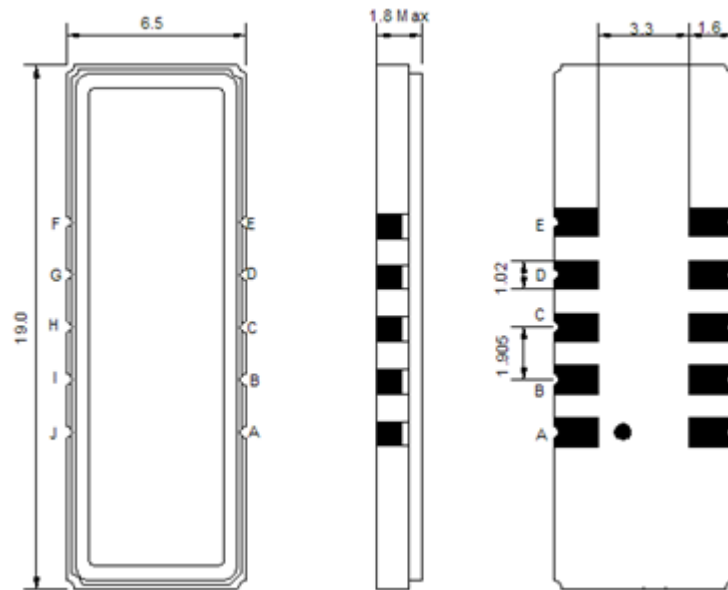
Electrical Characteristics

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	X			
Length x Width	mm ²	-	19.0 x 6.5	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	99.91	100.00	100.09
Insertion Loss at Fo	dB	-	13.7	15.0
Group Delay Variation	nsec	-	250	500
Absolute Delay at Fo	usec	-	2.4	-
Phase Linearity	deg	-	3.0	6.0
Passband Ripple Variation	dB	-	0.8	1.5
Bandwidth at -1dB	MHz	0.30	0.34	-
Bandwidth at -3dB	MHz	0.47	0.55	-
Bandwidth at -40dB	MHz	-	1.38	1.45
Ultimate Rejection	dB	45	55	-
Substrate Material		-	Qz	-
Ambient Temperature	°C	-	25	-

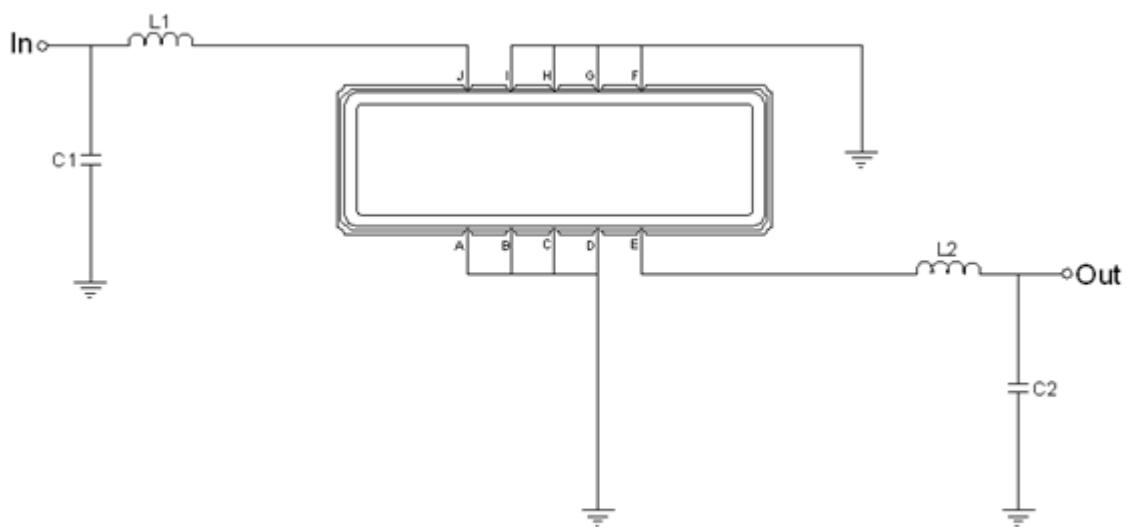
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



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

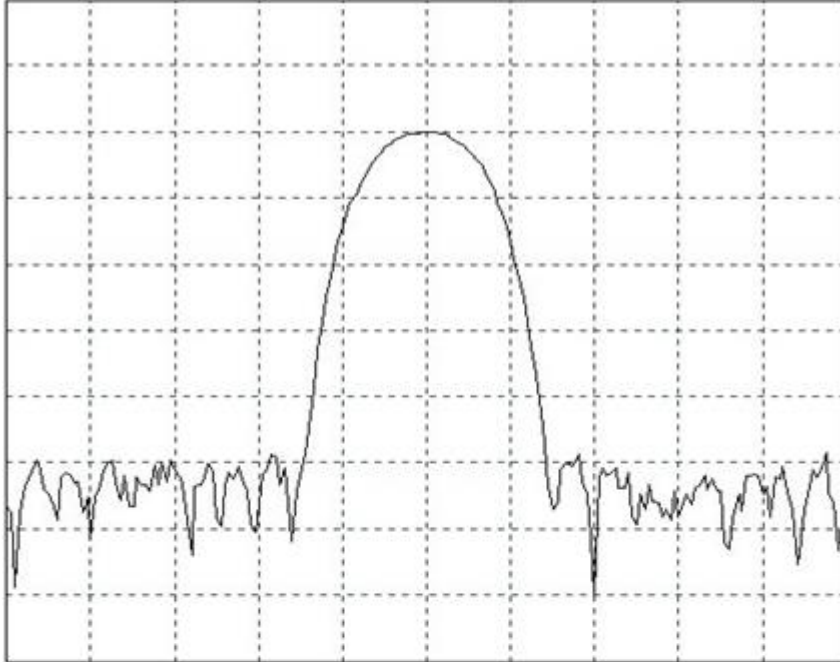
Testing Environment



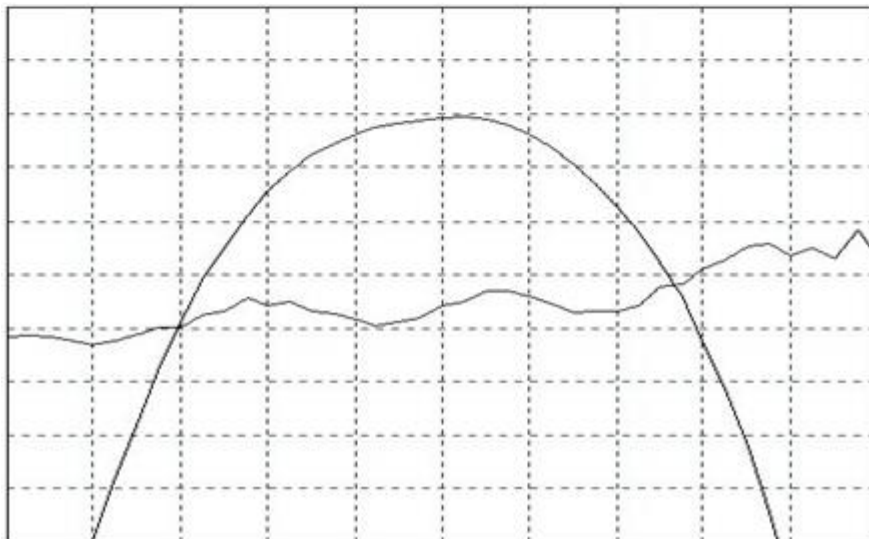
Test Fixture & Values	
Input	L1 = 162 nH , C1 = 18 pF
Output	L2 = 132 nH , C2 = 39 pF
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response



Horizontal: 0.5 MHz/Div
Vertical: 10 dB/Div



Horizontal: 0.1MHz/Div
Vertical: 1 dB/Div
Vertical: 100 ns/Div