

## 70 MHz SAW Filter

162909

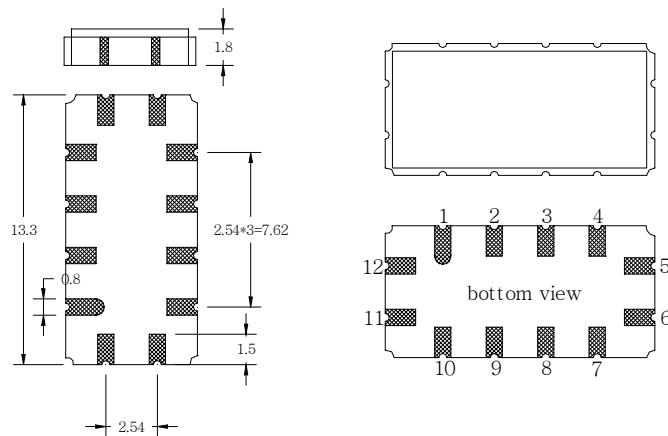
## Specifications

Parameter	Unit	Min	Typical	Max
Center Frequency ( $f_0$ )	MHz	69.80	70.00	70.20
Insertion Loss at $f_0$	dB	-	12.2	
Source Impedance (single ended) <sup>(1)</sup>	$\Omega$	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	$\Omega$	-	50	-
Temperature Coefficient	ppm/ $^{\circ}$ C	-	-94	-
Amplitude Ripple within $f_0 \pm 7.0$ MHz	dB <sub>p-p</sub>	-	0.5	1.0
Bandwidth at -1.0 dB	MHz		15.45	-
Bandwidth at -3.0 dB	MHz		16.42	-
Bandwidth at -40.0 dB	MHz	-	20.17	
Relative Attenuation:				
from 10 to 59.5 MHz	dB	40	45	-
from 82 to 140 MHz	dB	40	45	-
Group Delay Variation within $f_0 \pm 7.0$ MHz	ns	-	50	
Absolute Delay at $f_0$	$\mu$ s	-	0.88	-
IN/OUT Return Loss at $f_0$	dB	-	-	-
Package type & size	V			
Length x Width	mm <sup>2</sup>	-	13.3 x 6.5	-
Height	mm	-	-	1.8

**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 Outline



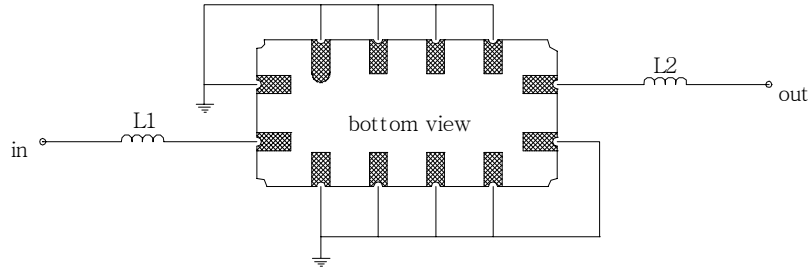
Pin Descriptions	
IN	11
Out	5
Ground	1,2,3,4,6,7,8,9,10,12

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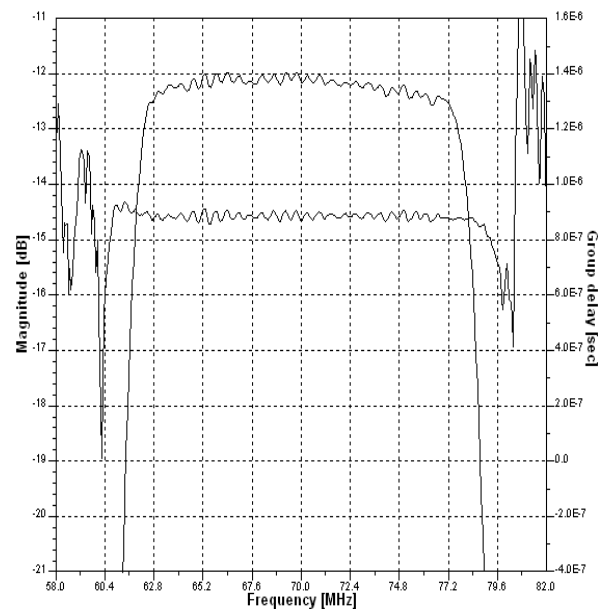
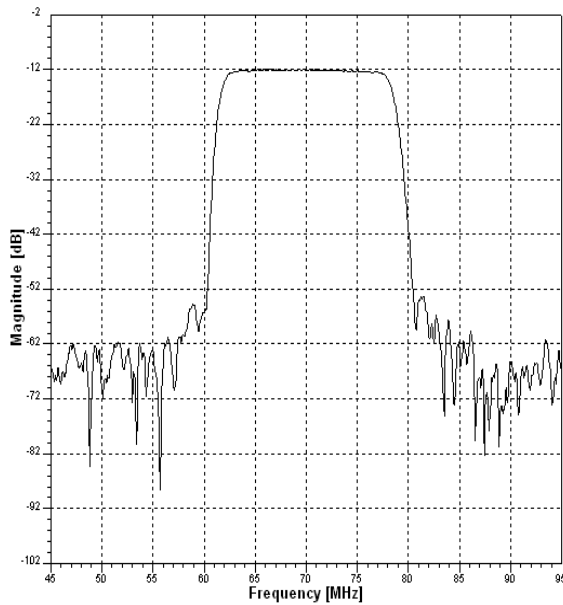
## Testing Environment

Source & Load Impedance: 50Ω



Test Fixture & Values	
Input	L1=220nH Q >40
Output	L2=220nH Q.>40

## Frequency Response



SAW PRODUCTS

COM DEV