

## 70 MHz SAW Filter

162901

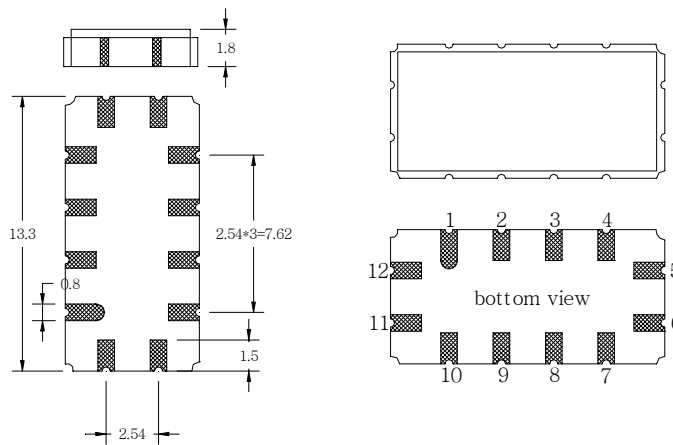
## Specifications

Parameter	Unit	Min	Typical	Max
Center Frequency ( $f_0$ )	MHz	69.80	70.00	70.20
Insertion Loss at $f_0$	dB	-	10.7	
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 $f_0 \pm 3.7$ MHz	dB <sub>p-p</sub>	-	0.6	1.0
Bandwidth at -1.0 dB	MHz		8.66	-
Bandwidth at -3.0 dB	MHz		9.31	-
Bandwidth at -35.0 dB	MHz	-	11.7	
Relative Attenuation:				
from 10 to 64 MHz	dB	40	46	-
from 77 to 140 MHz	dB	40	42	-
Group Delay Variation within $f_0 \pm 3.7$ MHz	ns	-	125	
Absolute Delay at $f_0$	$\mu$ s	-	0.94	-
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



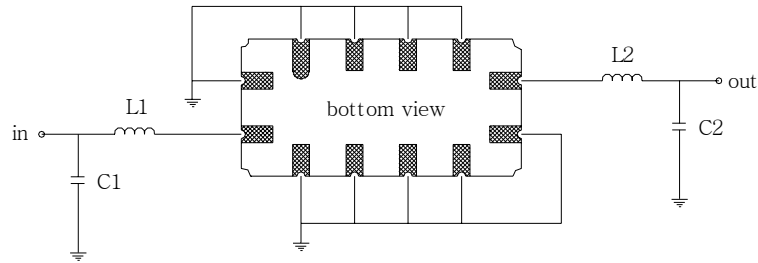
Pin Descriptions	
IN	11
Out	5
Ground	1,2,3,4,6,7,8,9,10,12

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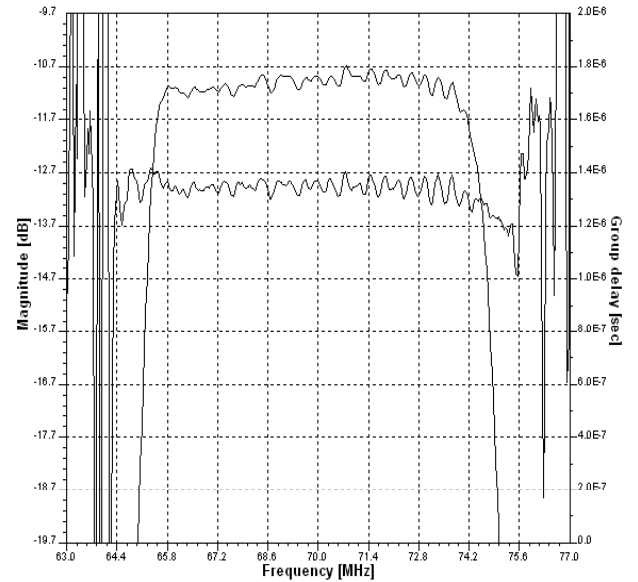
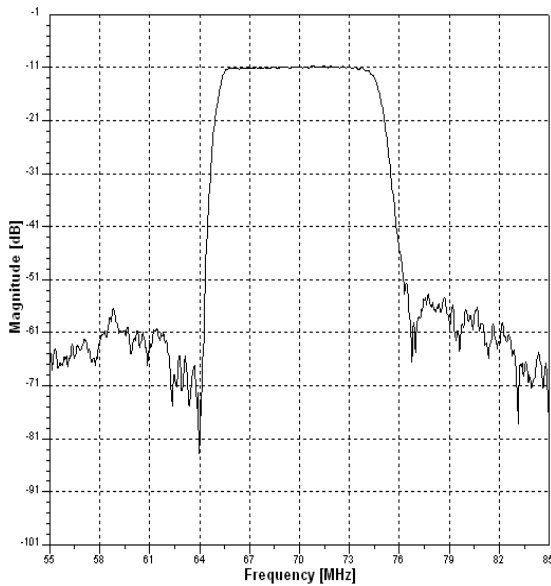
## Testing Environment

Source & Load Impedance: 50Ω



Test Fixture & Values	
Input	L1=220nH Q >40 C1=36pF
Output	L2=220nH Q.>40 C2=68pF

## Frequency Response



SAW PRODUCTS

COM DEV