

# 140 MHz Low-Loss IF SAW Filter

# 162943

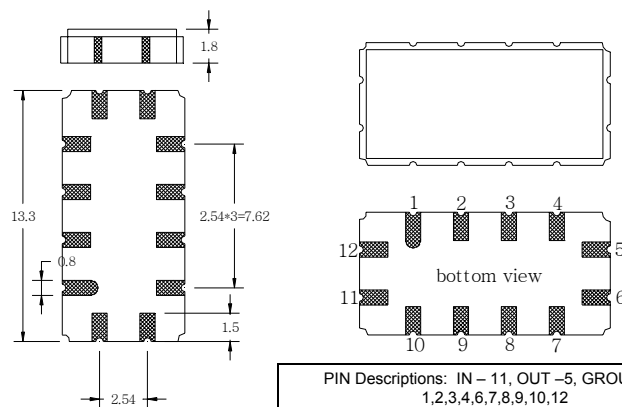
## Specifications

Parameter	Unit	Min.	Typical	Max.
Centre Frequency ( $f_0$ )	MHz	139.6	140.0	140.4
Insertion Loss at $f_0$	dB	-	10.5	11.5
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 $f_0 \pm 3.6$ MHz	dB <sub>p-p</sub>	-	0.6	1.0
-1.5dB Bandwidth	MHz	8.9	9.3	-
-3.0dB Bandwidth	MHz	9.0	9.9	-
-35dB Bandwidth	MHz	-	13.5	14.5
Relative Attenuation:				
10 ~ 132 MHz	dB	40	48	-
149 ~ 260 MHz	dB	40	45	-
Group Delay Variation within $f_0 \pm 3.6$ MHz	ns	-	100	150
Absolute Delay at $f_0$	$\mu$ s	-	1.03	-
IN/OUT Return Loss at $f_0$	dB	-	-	-
Package Type and 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

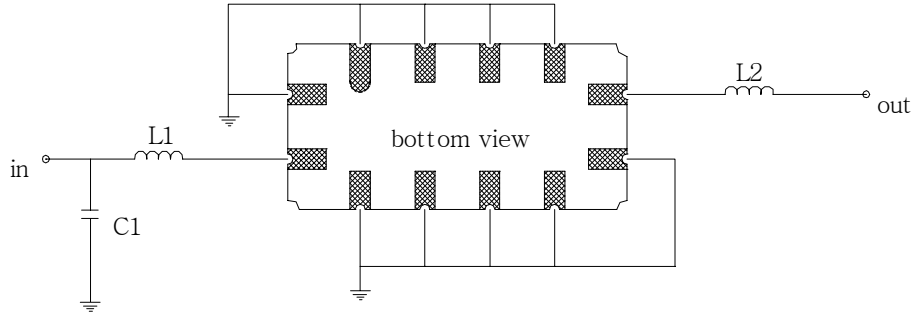


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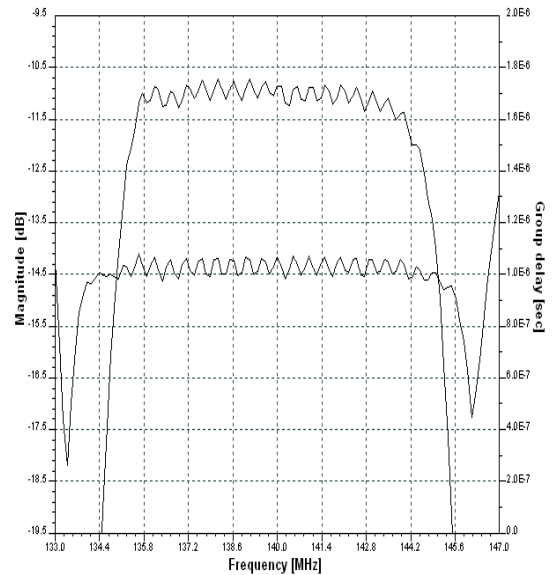
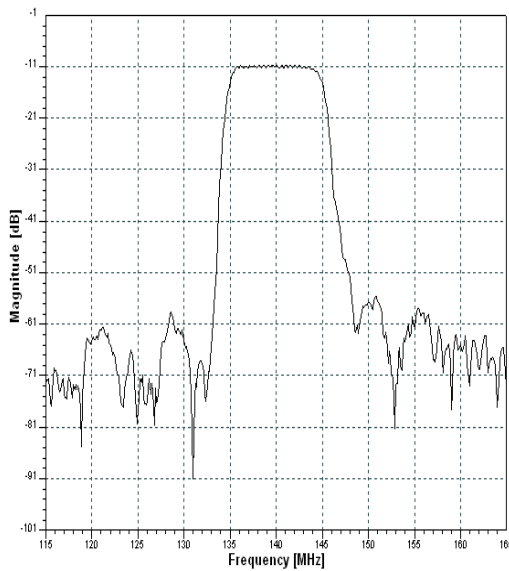
## Testing Environment

Source & Load Impedance: 50 Ω



Test Fixture & Values	
Input	L1=82nH Q >40, C1=30pF
Output	L2=56nH Q.>40

## Frequency Response



SAW PRODUCTS

COM DEV