

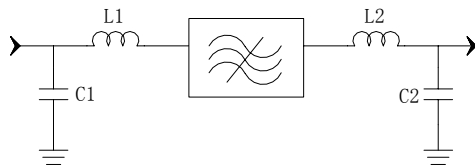
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	139.95	140	140.05
Insertion Loss	dB	-	13.8	15
1 dB Bandwidth	MHz	1.15	1.21	-
3 dB Bandwidth	MHz	1.6	1.75	-
40 dB Bandwidth	MHz	-	3.6	3.7
Passband Variation	dB	-	0.4	1
Group delay Variation ($F_0 \pm 0.8\text{MHz}$)	nsec	-	40	-
Phase Linearity ($F_0 \pm 0.8\text{MHz}$)	degree	-	1	-
Ultimate Rejection	dB	40	42	-
Absolute Delay	usec	-	1.5	-
Material Temperature coefficient	KHz/°C	0.14		
Ambient Temperature	°C	25		
Package Size	SMP-53 (13.3 x 6.5 mm Nominal Footprint)			

Notes:


1. All specifications are based on the test circuit shown
2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature
3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
4. This is the optimum impedance in order to achieve the performance show

Matching Configuration

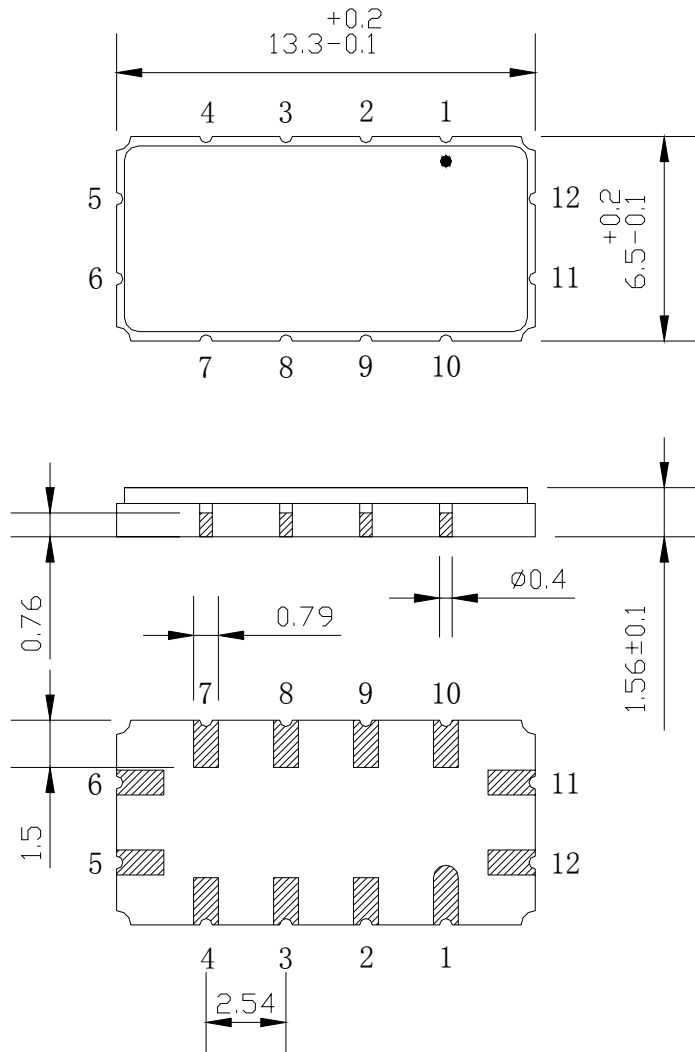


L1 = 100 + 10nH L2 = 100nH
C1 = 47pF C2 = 47pF
Source/Load Impedance = 50 ohm


Notes - Component values may change depending on board layout.

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Package Dimension

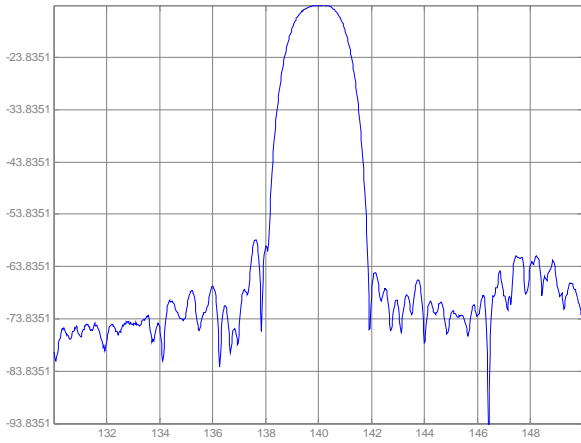


Input:11
Output:5

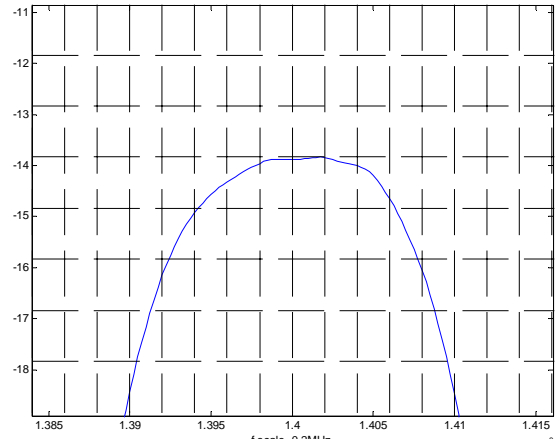
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Typical Performance

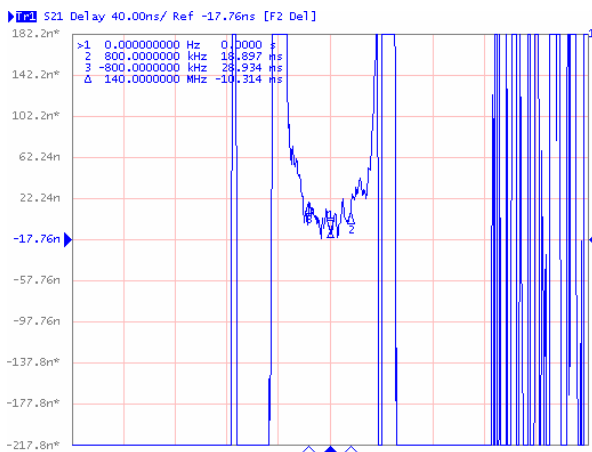
Frequency Respond



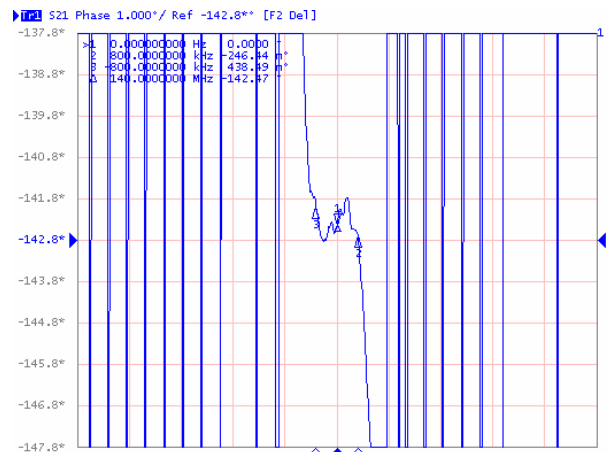
Wideband Respond



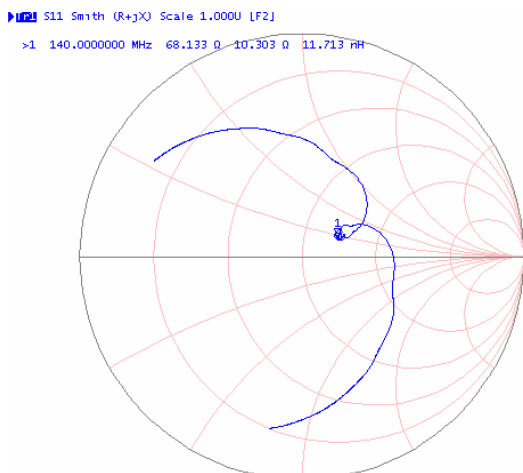
Group delay Variation ($F_0 \pm 0.8\text{MHz}$)



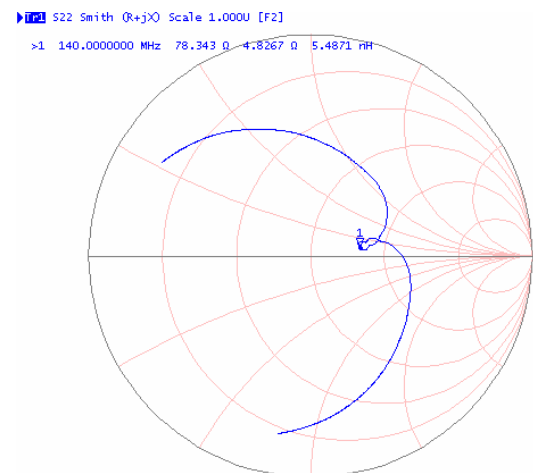
Phase Linearity ($F_0 \pm 0.8\text{MHz}$)



Smith Chart S11



Smith Chart S22



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