

Specifications

Parameter		Unit	Minimum	Typical	Maximum
Center Frequency		MHz	69.85	70	70.15
Insertion Loss		dB	-	23.7	27
3 dB Bandwidth		MHz	13	13.11	-
40 dB Bandwidth		MHz	-	13.87	-
Passband Variation		dB	-	0.6	1.5
Absolute Delay		usec	-	3.78	4
Ultimate Rejection	f0±6.95MHz	dB	35	41	-
	f0±7.15MHz	dB	45	61	-
	f0±7.55MHz	dB	50	54	-
	f0±11.55MHz	dB	52	61	-
	f0±15MHz	dB	52	60	-
Material Temperature coefficient		KHz/°C	-6.58		
Ambient Temperature		°C	25		
Package Size		DIP3512 (35.0x12.8x4.7mm3)			

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



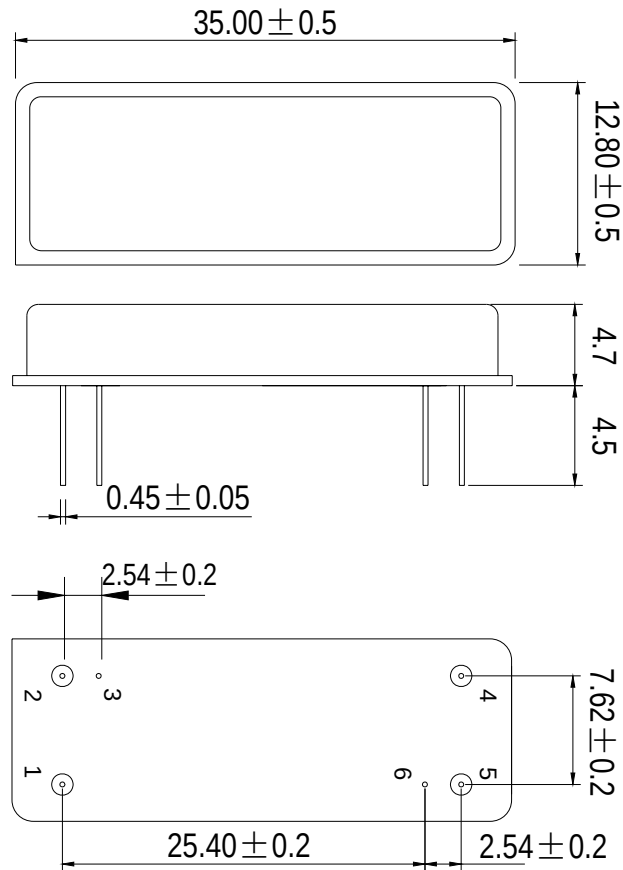
$$L1 = L2 = 120\text{nH}$$

Source / Load Impedance = 50 ohm

Notes - Component values may change depending
on board layout.

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Package Dimension



Input	1
Output	5
Ground	2,3,4,6

Package: DIP3512

Unit: mm

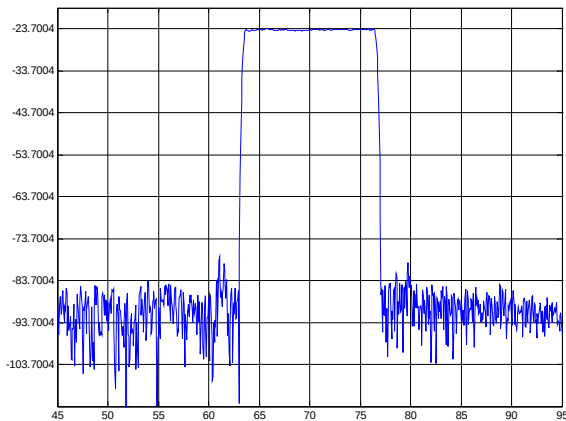


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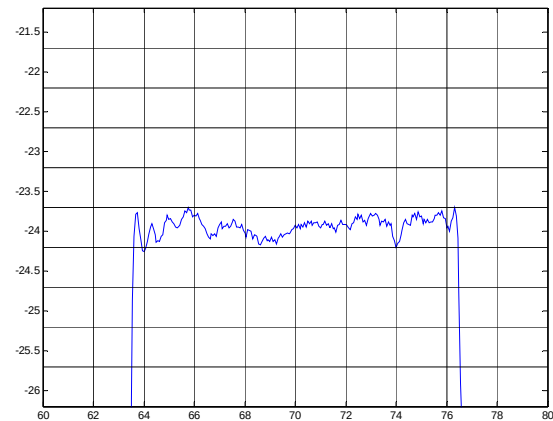
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Typical Performance

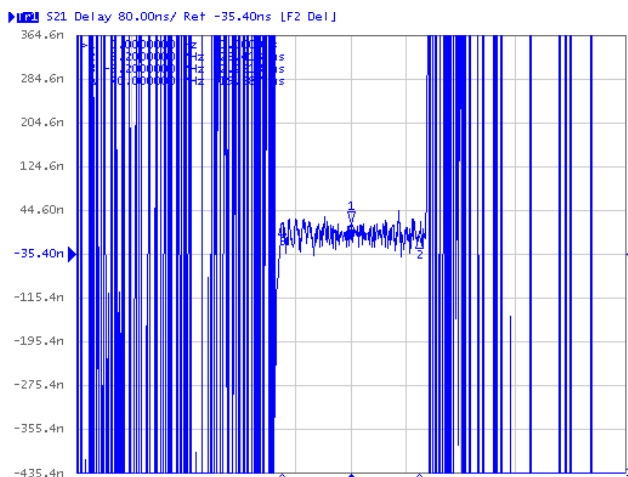
Frequency Respond



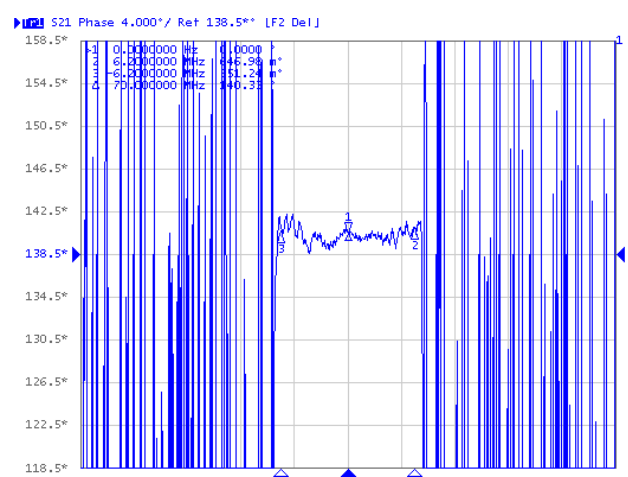
Passband Respond



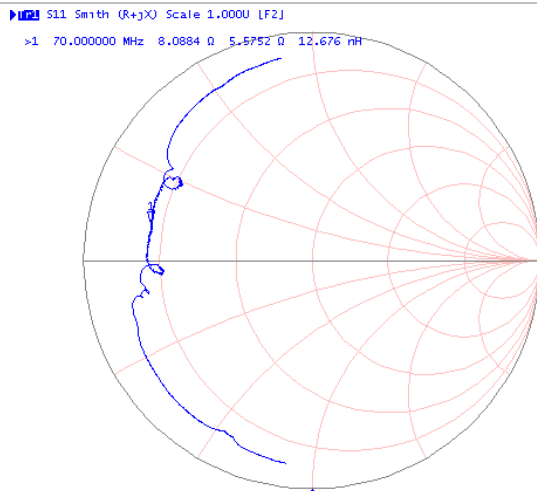
Group Delay Variation($f_0 \pm 6.2\text{MHz}$)



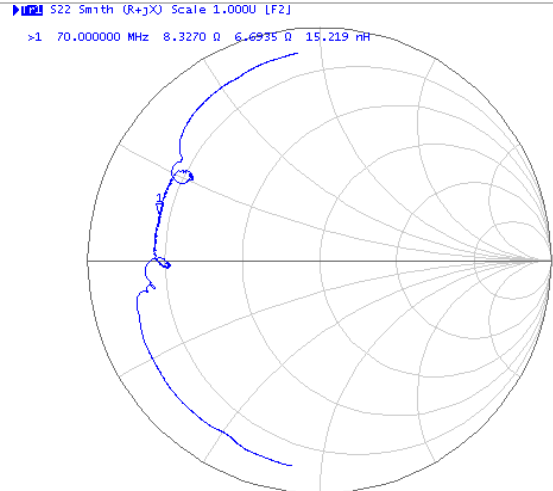
Phase Linearity($f_0 \pm 6.2\text{MHz}$)



Smith Chart S11



Smith Chart S22



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