

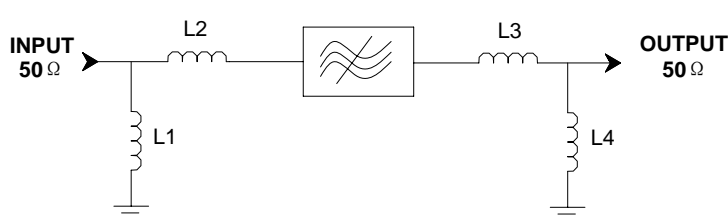
### Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	69.9	70	70.1
Insertion Loss	dB	-	30	31
3 dB Bandwidth	MHz	24.4	24.5	24.6
35 dB Bandwidth	MHz	-	25.25	25.3
40 dB Bandwidth	MHz	-	25.3	-
45dB Bandwidth	MHz	-	25.34	25.7
50dB Bandwidth	MHz	-	25.39	26.5
55dB Bandwidth	MHz	-	25.43	34.5
Near Rejection	dB	45	52	-
Ultimate Rejection (outside $f_0 \pm 25\text{MHz}$ )	dB	50	55	-
Passband Variation	dB	-	0.7	1.5
Absolute Delay	usec	-	3.73	4
Material Temperature coefficient	KHz/°C	-6.58		
Ambient Temperature	°C	25		
Package Size	DIP3512 (35.2x12.7x5.2mm3)			

#### 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

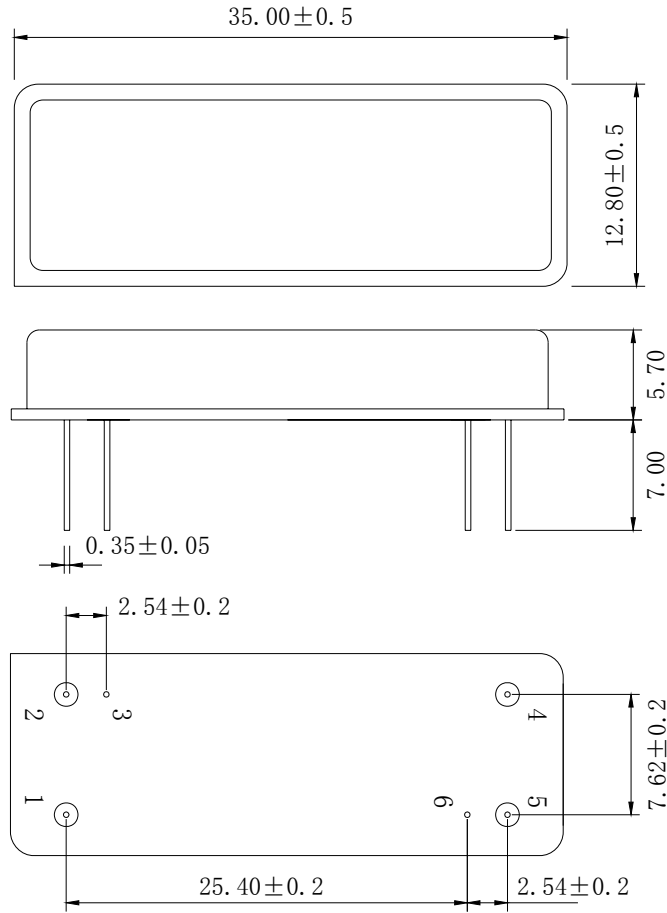


**L1=180nH L2=56nH**  
**L3=82nH L4=330nH**  
**Source/Load Impedance=50 ohm**

Notes - Component values may change depending on board layout.

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*Package Dimension*



Package: DIP3512

Unit: mm

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

**Package: DIP3512**

**Unit: mm**



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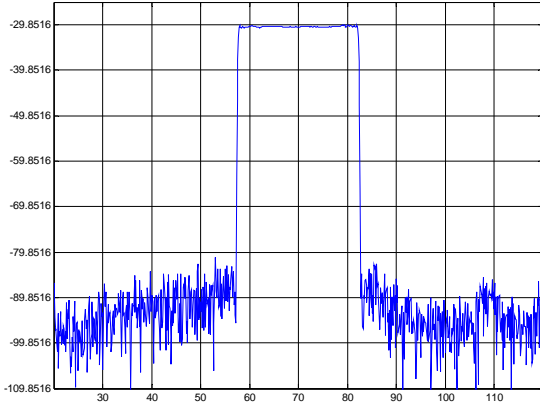
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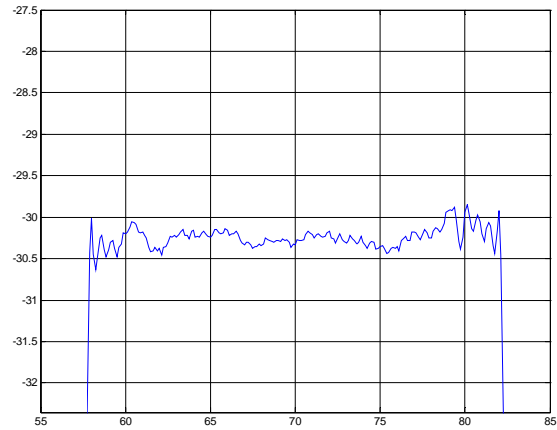
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Typical Performance

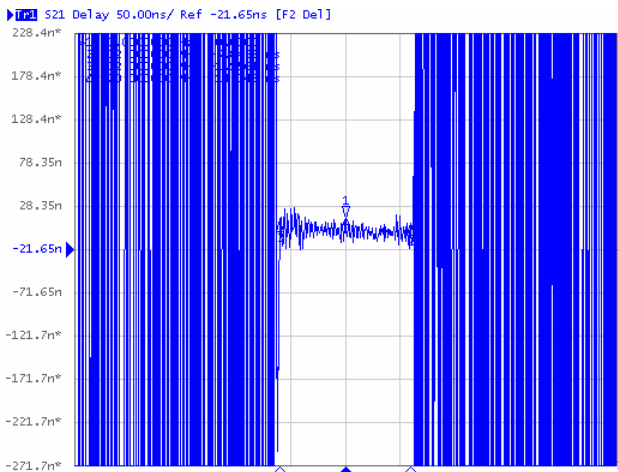
Frequency Respond



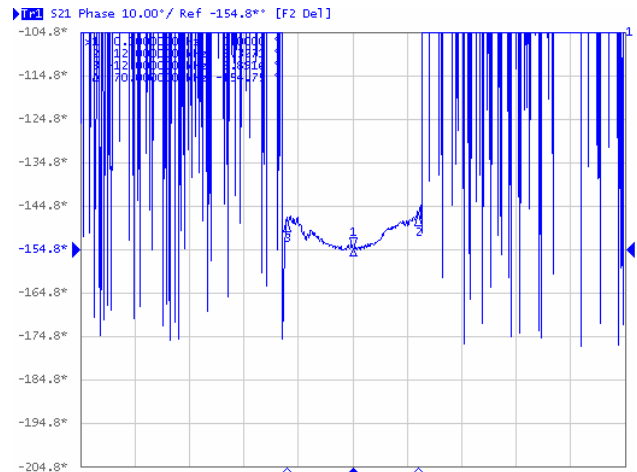
Passband Respond



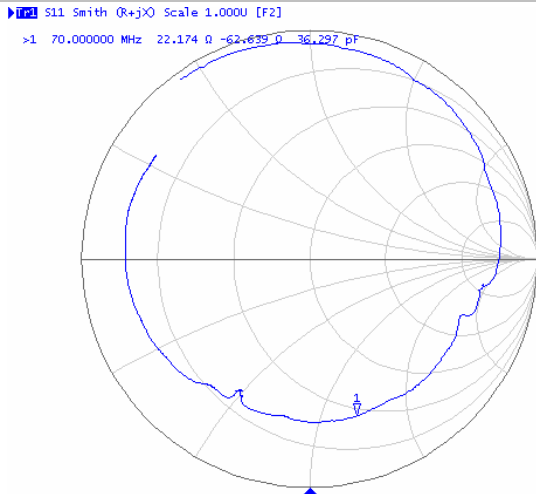
Group Delay Variation( $f_0 \pm 12\text{MHz}$ )



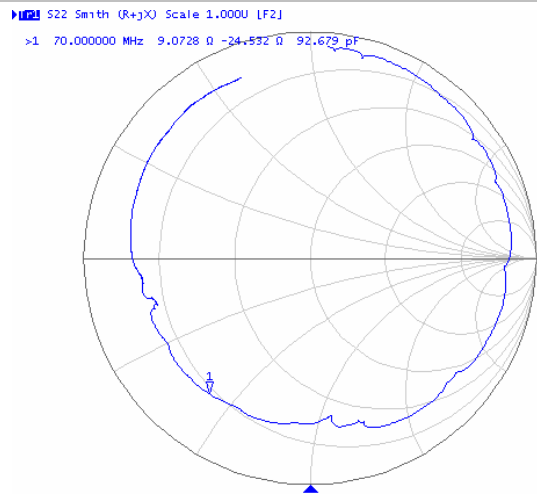
Phase Linearity( $f_0 \pm 12\text{MHz}$ )



Smith Chart S11



Smith Chart S22



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