

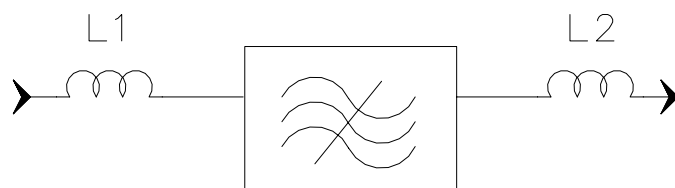
### Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	69.9	70	70.1
Insertion Loss	dB		26.6	28.1
3dB Bandwidth	MHz	17.45	17.5	17.55
35dB Bandwidth	MHz		18.226	18.35
45dB Bandwidth	MHz		18.3	18.75
50dB Bandwidth	MHz		18.33	19.55
Passband Variation	dB		0.7	1
Absolute Delay	usec		3.67	4
Ultimate Rejection( $f_0 \pm 15\text{MHz}$ )	dB	52	56	
Substrate Material			YZ	
Ambient Temperature	°C		25	
Package Size		DIP3512 (35.2x12.7x5.2mm <sup>3</sup> )		

#### 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

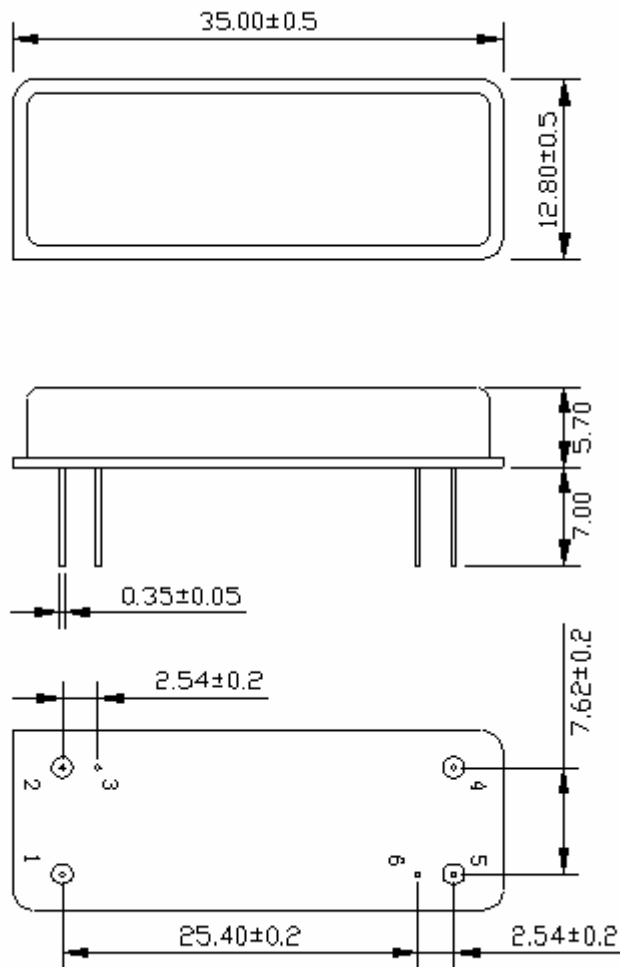



**L1 = 100nH L2 = 120nH**  
**Source/Load Impedance = 50 ohm**

Notes - Component values may change depending on board layout.

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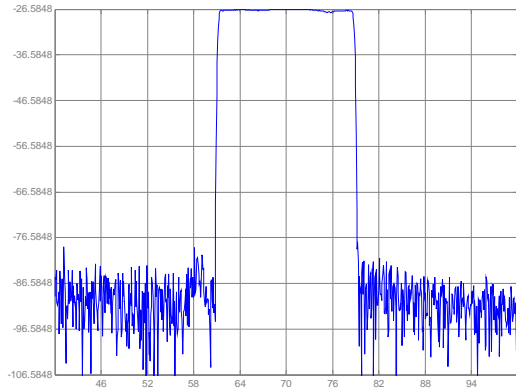
*Package Dimension*



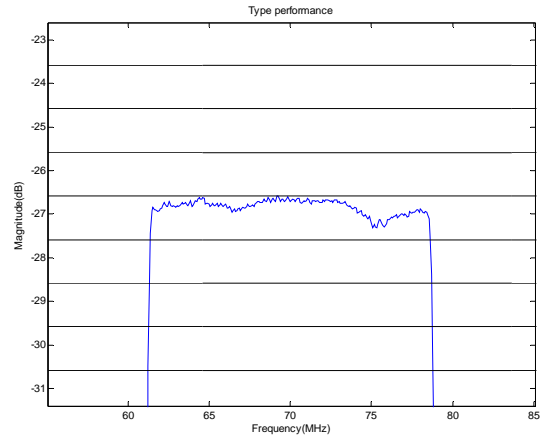
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Typical Performance

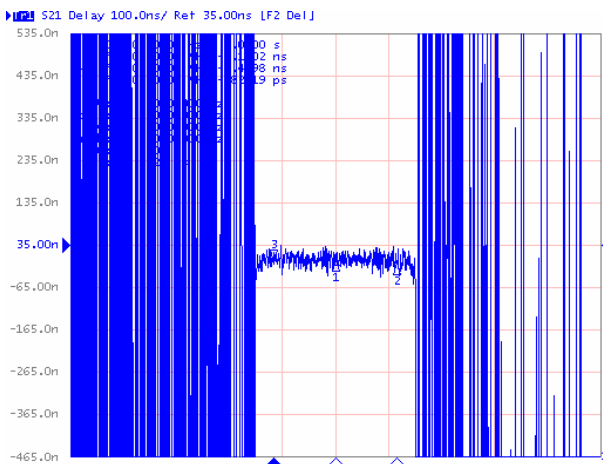
Frequency Respond



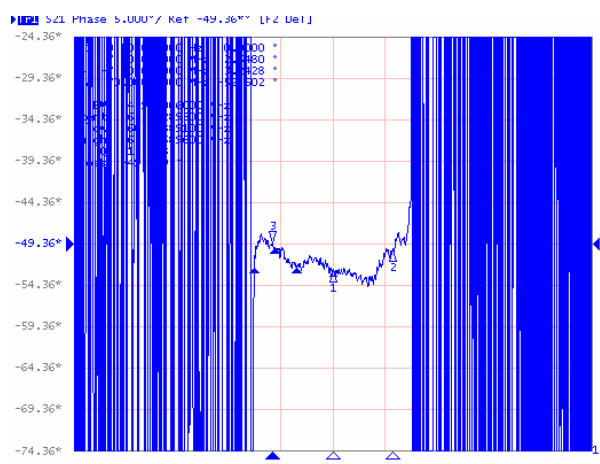
Passband Respond



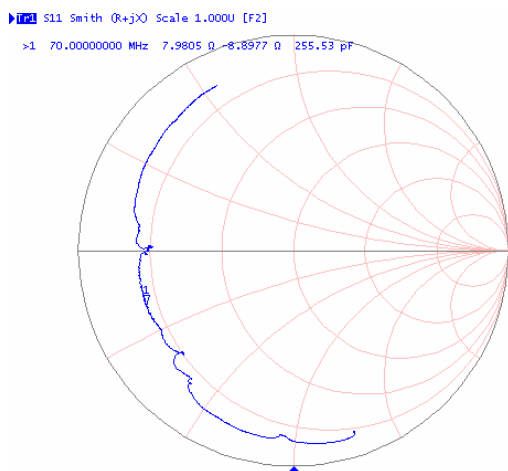
Group Delay Variation( $f_0 \pm 7\text{MHz}$ )



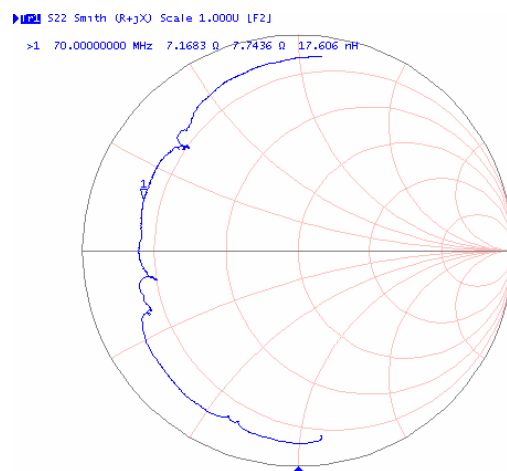
Phase Linearity( $f_0 \pm 7\text{MHz}$ )



Smith Chart S11



Smith Chart S22



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