

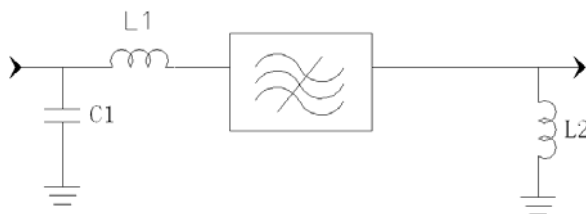
## Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	69.9	70	70.1
Insertion Loss	dB	-	23.4	25
1dB Bandwidth	MHz	-	16.45	-
2 dB Bandwidth	MHz	16.5	16.6	-
3 dB Bandwidth	MHz	-	16.7	-
20 dB Bandwidth	MHz	-	17.37	17.4
30 dB Bandwidth	MHz	-	17.54	17.8
40 dB Bandwidth	MHz	-	17.66	-
50 dB Bandwidth	MHz	-	17.73	-
Passband Variation	dB	-	0.6	1
Absolute Delay	usec	-	2.87	5
Ultimate Rejection	dB	50	52	-
Material Temperature coefficient	KHz/°C	-5.74		
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=100nH L2=270nH**

**C1=22pF**

**Source/Load Impedance=50 ohm**

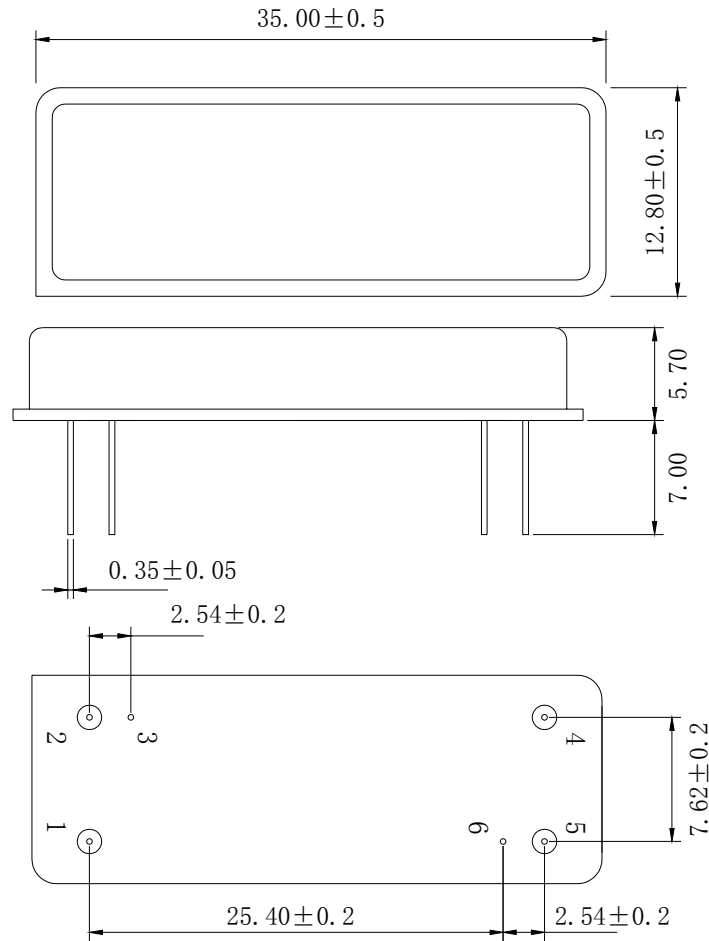
Notes - Component values may change depending  
on board layout.




**SIPAT Co., Ltd.**  
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*Package Dimension*

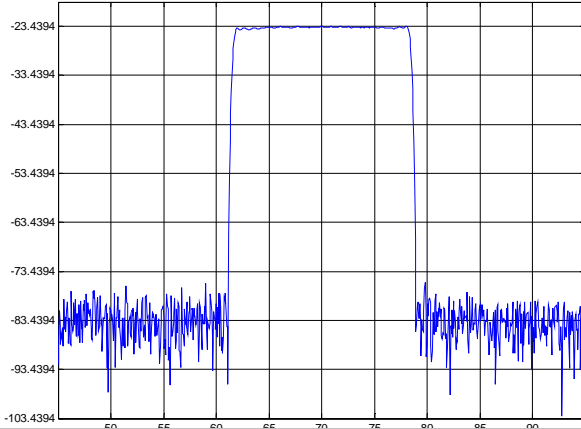


**Input:1**  
**Output:5**

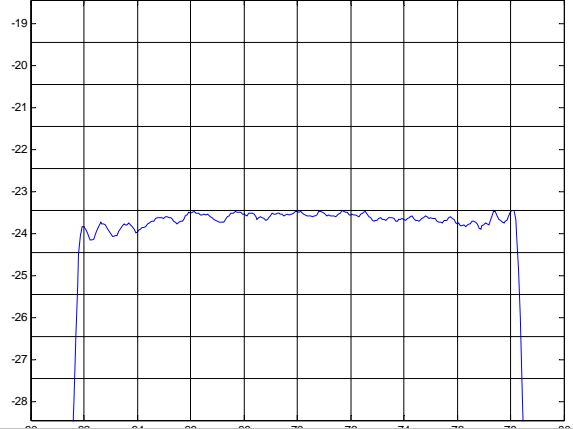
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Typical Performance

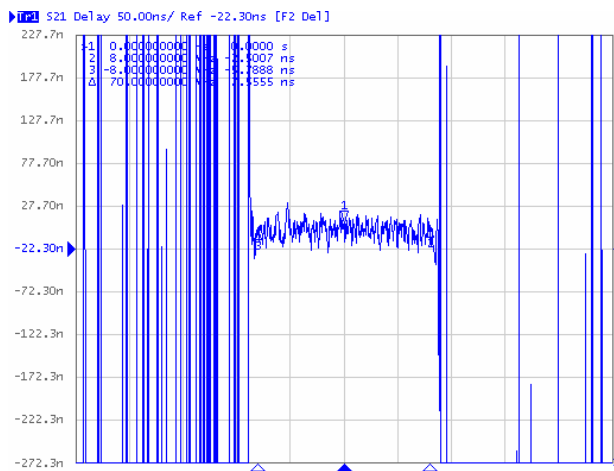
Frequency Respond



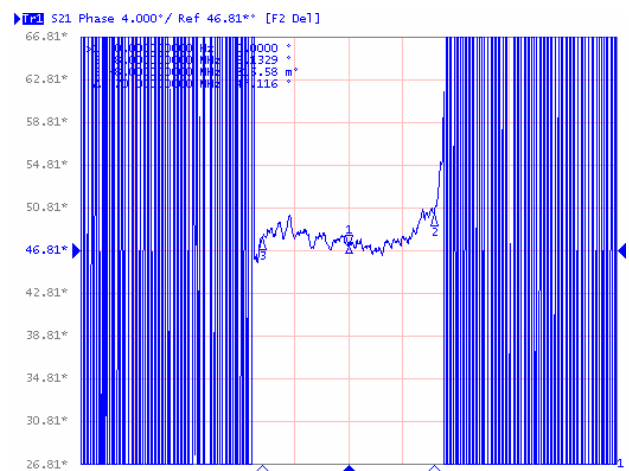
Passband Respond



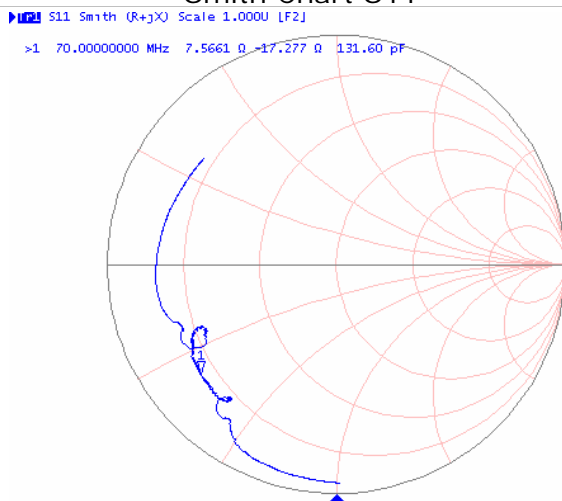
Group Delay Variation( $f_0 \pm 8\text{MHz}$ )



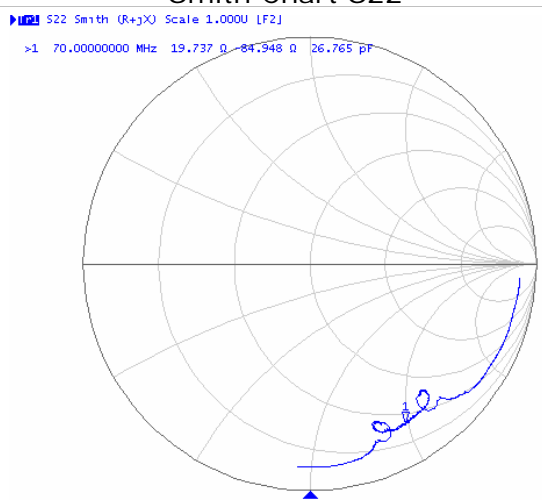
Phase Linearity( $f_0 \pm 8\text{MHz}$ )



Smith Chart S11




Smith Chart S22



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