

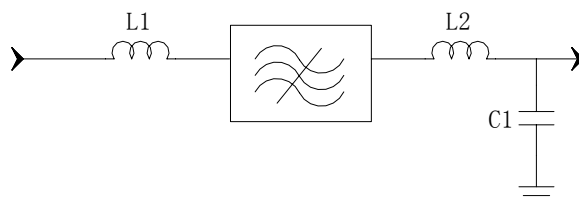
## Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	95.85	96	96.15
Insertion Loss(86~106MHz)	dB	-	8.4	12
Pass band bandwidth	MHz	20	20.33	-
3 dB Bandwidth	MHz	-	23.45	-
40 dB Bandwidth	MHz	-	31.71	-
Passband Variation(86~106MHz)	dB	-	0.8	1.2
Absolute Delay	usec	-	0.68	-
Group Delay Variation( $f_0 \pm 10$ MHz)	nsec	-	60	-
Ultimate Rejection	0~68.4MHz	55	56	-
	76.8MHz	45	48	-
	123.6~162.8MHz	55	61	-
	162.8~1000MHz	35	40	-
1dB compression point(86~106MHz)	dBm	12	15	-
Input IP3	dBm	35	40	-
Material Temperature coefficient	KHz/°C	-7.87		
Ambient Temperature	°C	25		
Package Size	SMD7*5			

### 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=220nH L2=180nH**

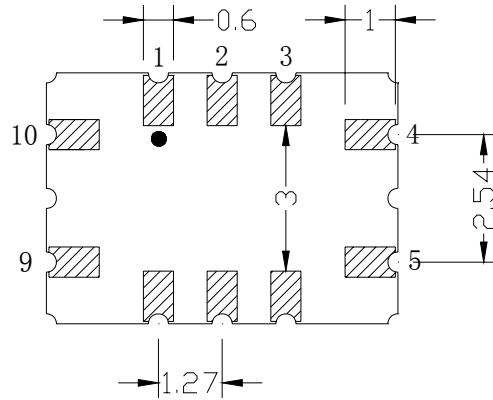
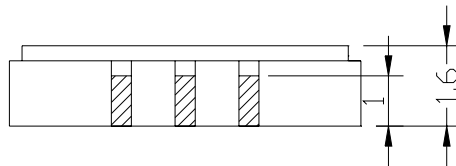
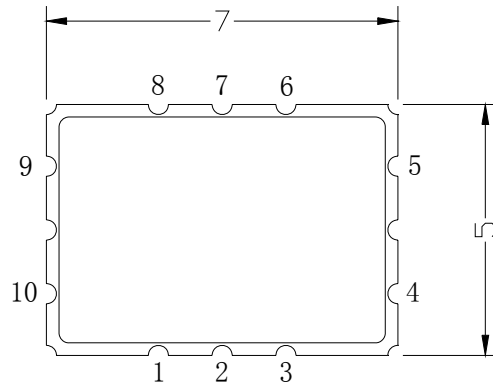
**C1=33pF**

**Source/Load Impedance=50 ohm**

Notes - Component values may change depending on board layout.

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*Package Dimension*



**Input:9**  
**Output:4**

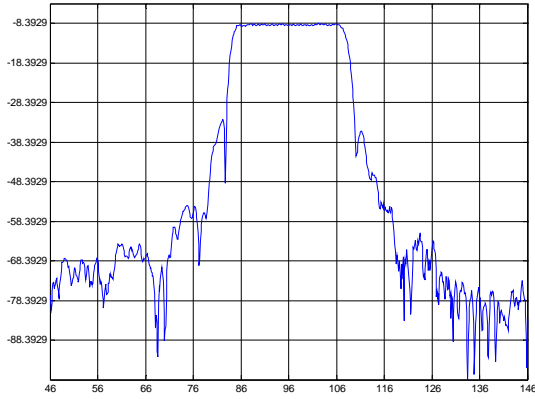


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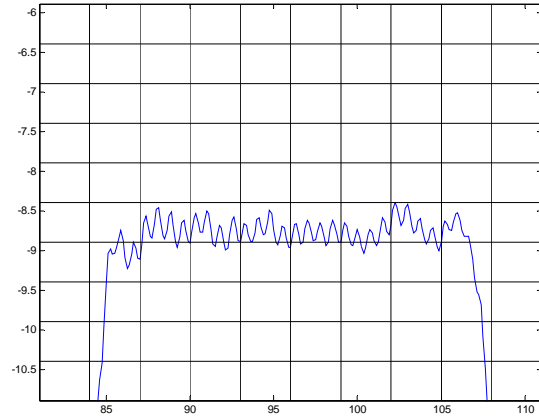
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Typical Performance

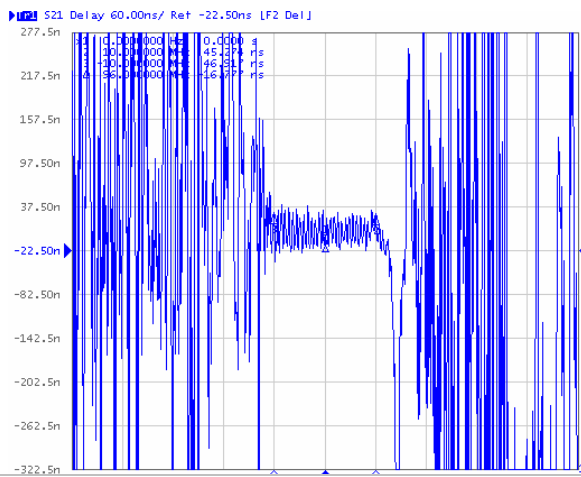
Frequency Respond



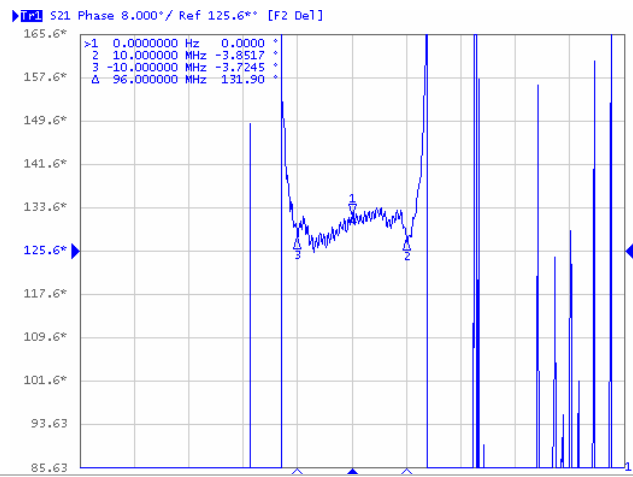
Passband Respond



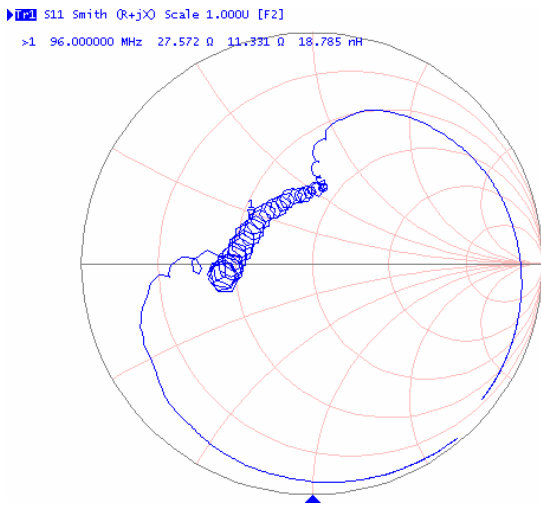
Group Delay Variation(f0±10MHz)



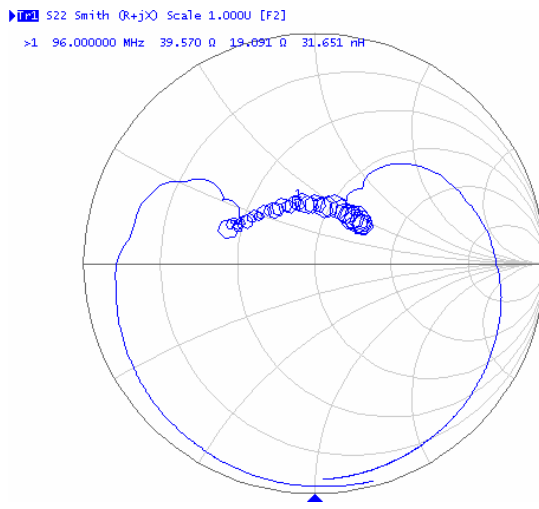
Phase Linearity(f0±10MHz)



Smith Chart S11



Smith Chart S22



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