



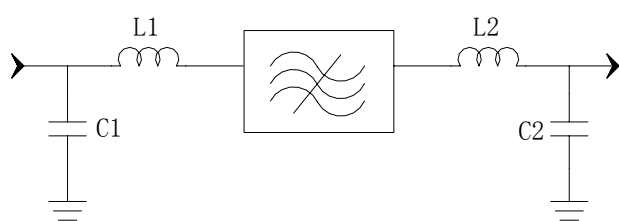
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	139.8	140	140.2
Insertion Loss	dB	-	24.4	25
1 dB Bandwidth	MHz	-	7.86	-
3 dB Bandwidth	MHz	8.25	8.43	-
40 dB Bandwidth	MHz	-	10.6	10.9
50 dB Bandwidth	MHz	-	10.8	11.25
Passband Variation	dB	-	0.6	0.9
Absolute Delay	usec	-	2.1	4
Group Delay Variation(f0±4MHz)	nsec	-	50	150
Ultimate Rejection	dB	50	62	-
Material Temperature coefficient	KHz/°C	-2.52		
Ambient Temperature	°C	25		
Package Size	DIP2212 (22.7x12.7x5.2mm3)			

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



$$L1=L2=47\text{nH}$$

$$C1=39\text{pF} \quad C2=33\text{pF}$$

Source /Load Impedance=50 ohm

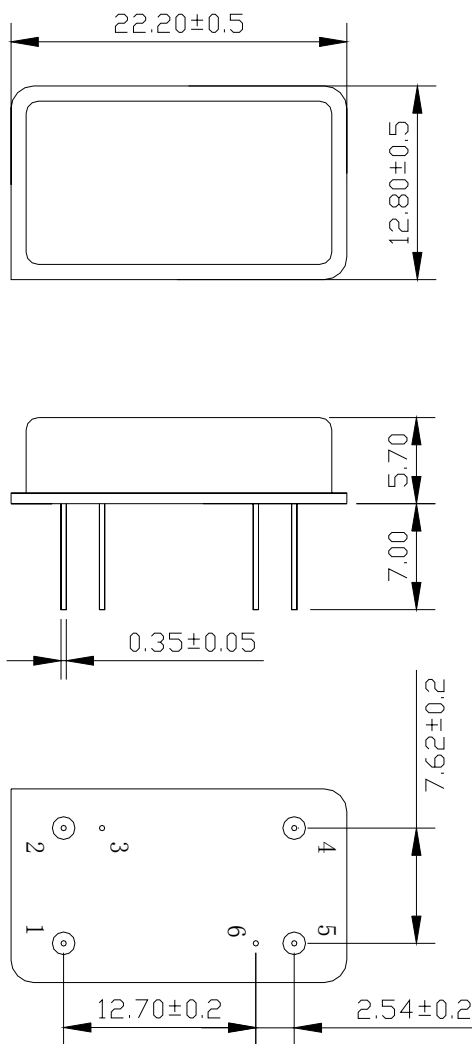
Notes - Component values may change depending
on board layout.



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Package Dimension

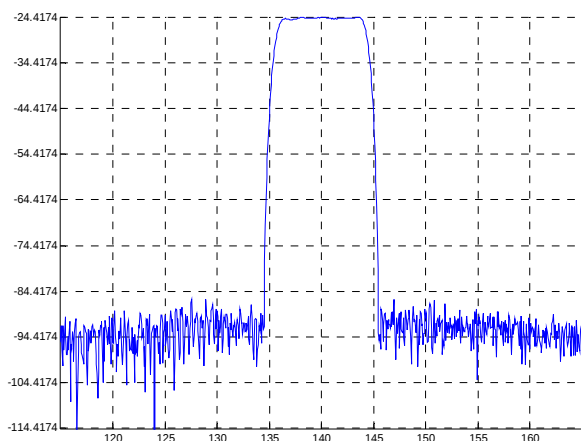


Input:1
Output:5

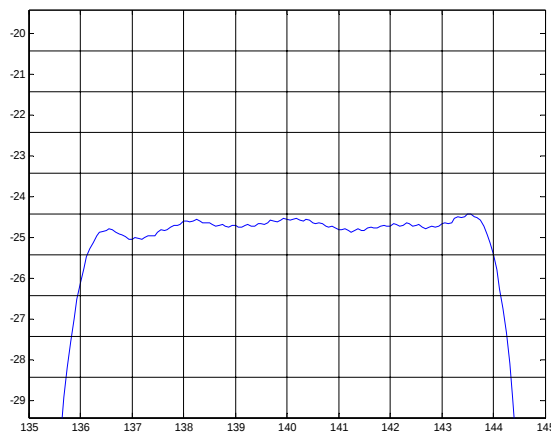
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Typical Performance

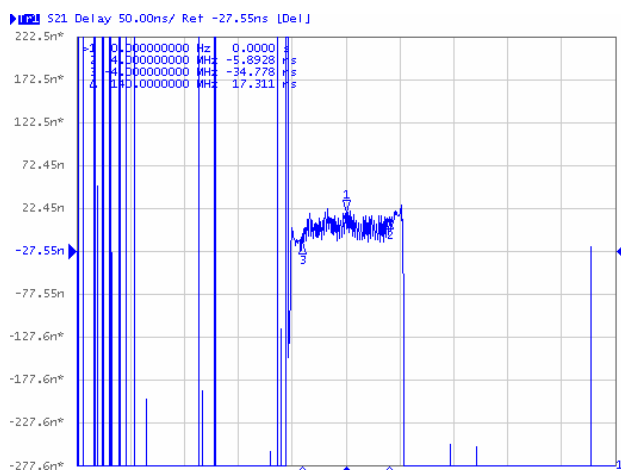
Frequency Response



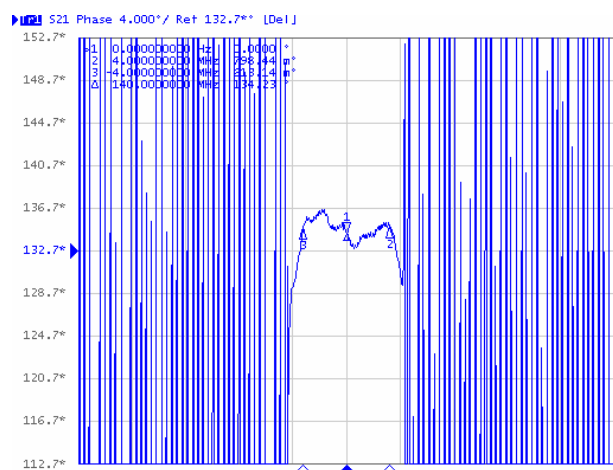
Passband Response



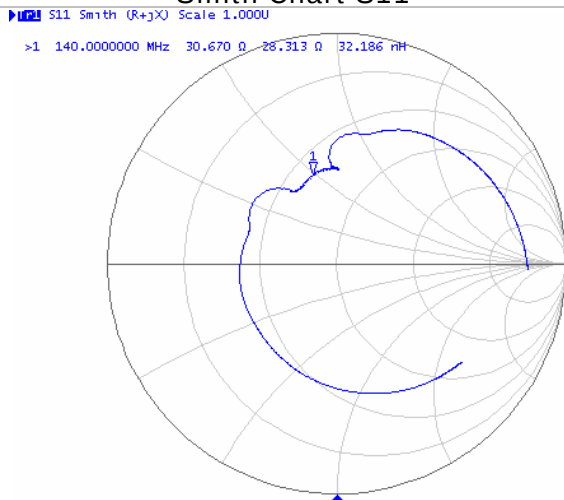
Group Delay Variation($f_0 \pm 4\text{MHz}$)



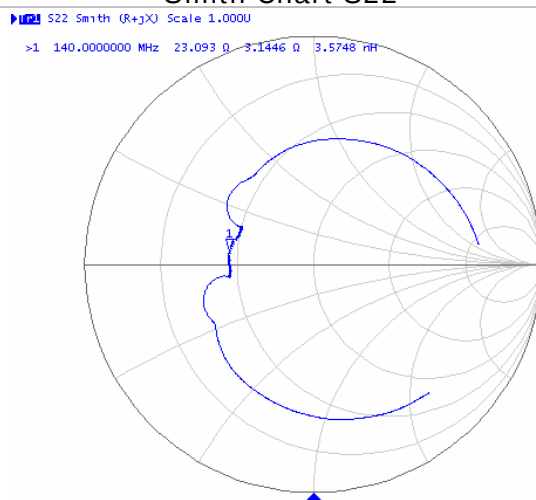
Phase Linearity($f_0 \pm 4\text{MHz}$)



Smith Chart S11



Smith Chart S22



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