

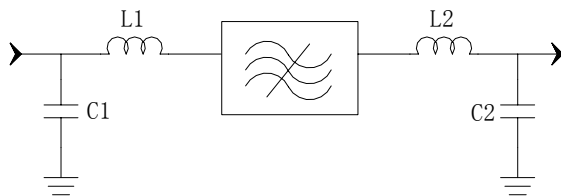
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	139.875	140	140.125
Insertion Loss	dB	-	27.2	-
1 dB Bandwidth	MHz	9.1	9.17	-
3 dB Bandwidth	MHz	9.3	9.41	-
40 dB Bandwidth	MHz	-	10.22	10.3
50 dB Bandwidth	MHz	-	10.28	11.5
Passband Variation	dB	-	0.7	1
Absolute Delay	usec	-	3.63	3.75
Phase Linearity($f_0 \pm 4.5\text{MHz}$)	deg	-	7	-
Group Delay Variation($f_0 \pm 4.5\text{MHz}$)	nsec	-	100	-
Ultimate Rejection	dB	50	57	-
Material Temperature coefficient	KHz/°C	-2.52		
Ambient Temperature	°C	25		
Package Size	DIP2712 (27.0x12.8x4.7mm3)			

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=27nH L2=33nH
C1=C2=56pF
Source/Load Impedance=50 ohm

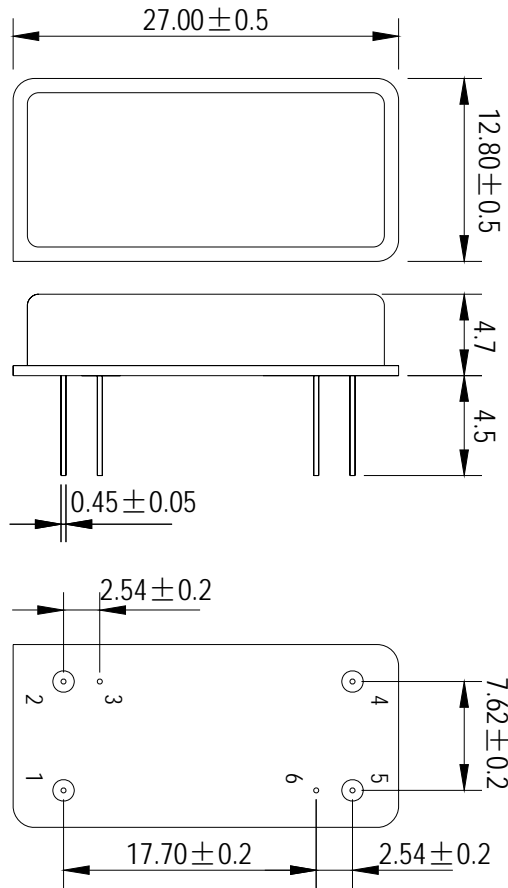
Notes - Component values may change depending on board layout.



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Part Number	LBT14050		
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Package Dimension



Input:1
Output:5

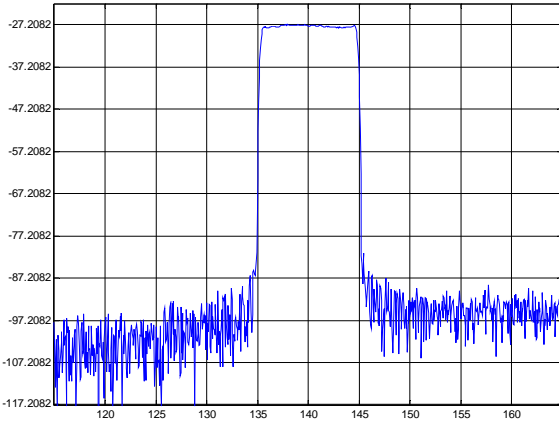


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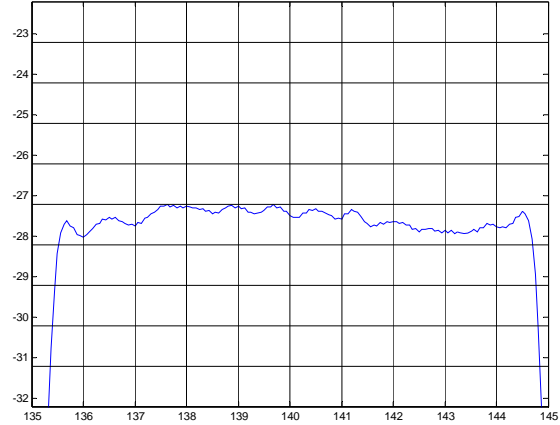
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Typical Performance

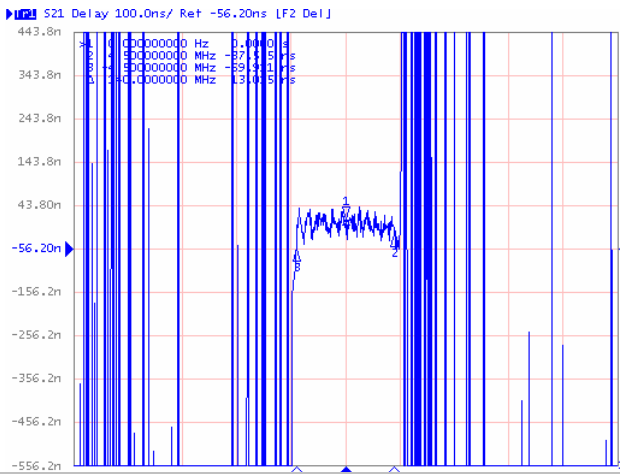
Frequency Respond



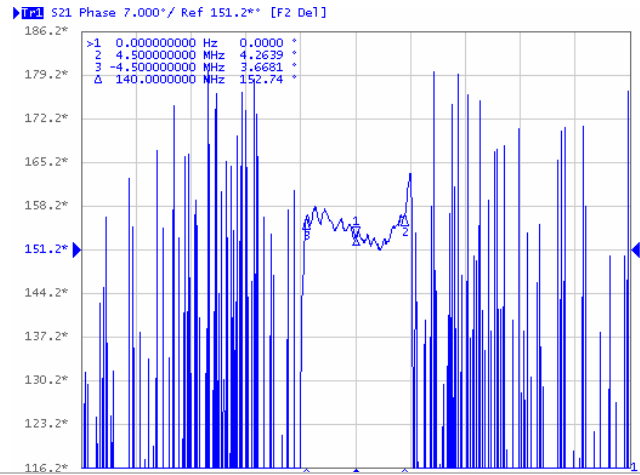
Passband Respond



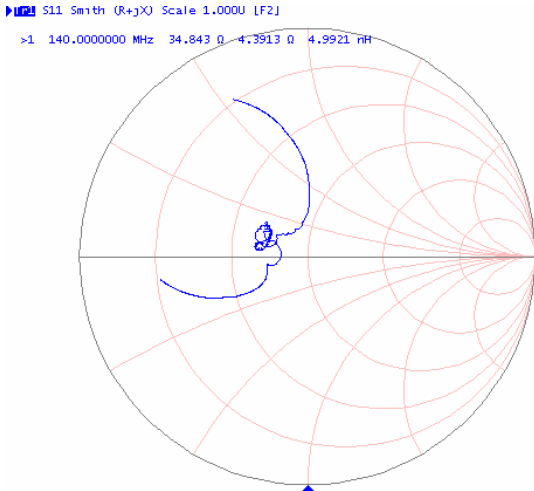
Group Delay Variation($f_0 \pm 4.5\text{MHz}$)



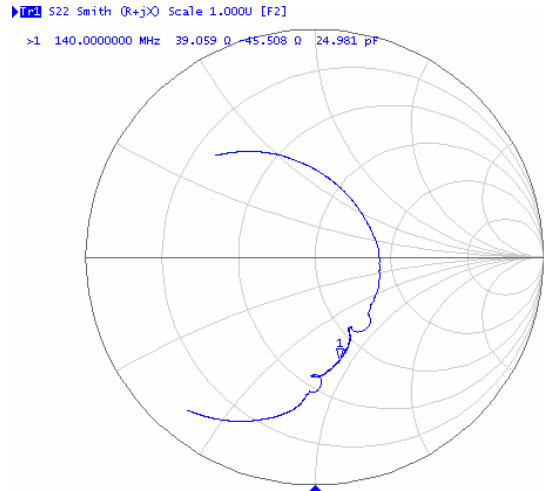
Phase Linearity($f_0 \pm 4.5\text{MHz}$)



Smith Chart S11



Smith Chart S22



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