

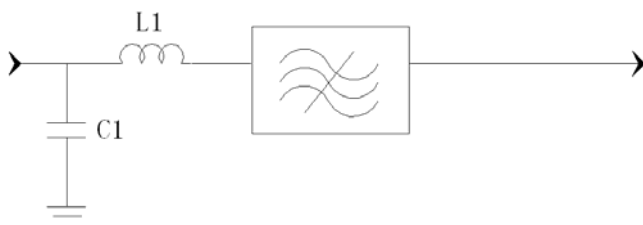
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	139.9	140	140.1
Insertion Loss	dB		32	33
1dB Bandwidth	MHz	9.7	9.76	
20 dB Bandwidth	MHz		10.5	10.6
30 dB Bandwidth	MHz		10.66	11
40 dB Bandwidth	MHz		10.73	11.8
Passband Variation	dB		0.7	1
Absolute Delay	usec		3.6	
Ultimate Rejection	dB	48	52	
Material Temperature coefficient	KHz/°C		-2.52	
Ambient Temperature	°C		25	
Package Size	DIP2712 (27.0x12.8x4.7mm ³)			

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 C1 = 82pF

Source / Load Impedance = 50 ohm

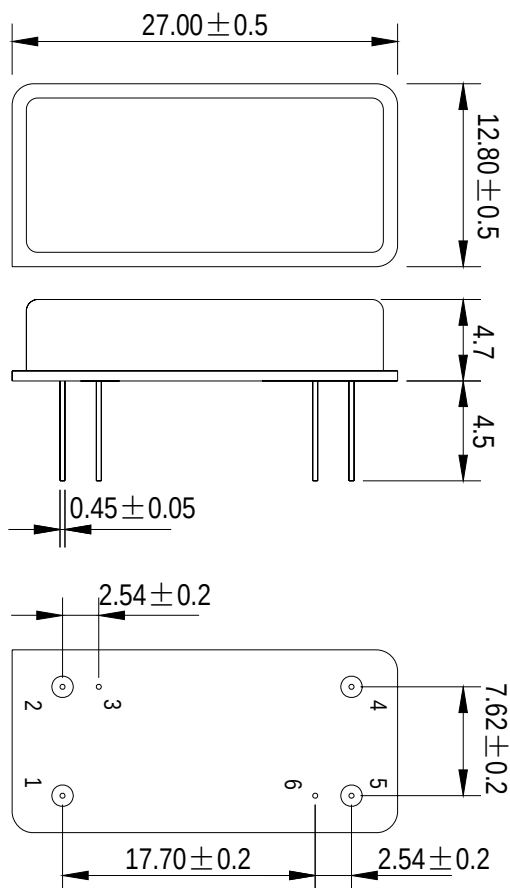
Notes - Component values may change depending
on board layout.



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Part Number	LBT14075		
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Package Dimension



Input:1
Output:5

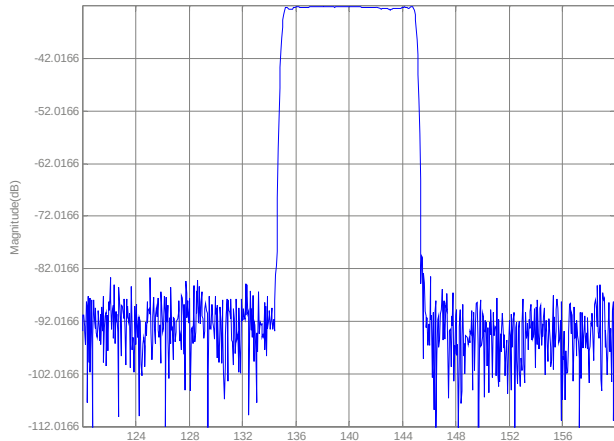


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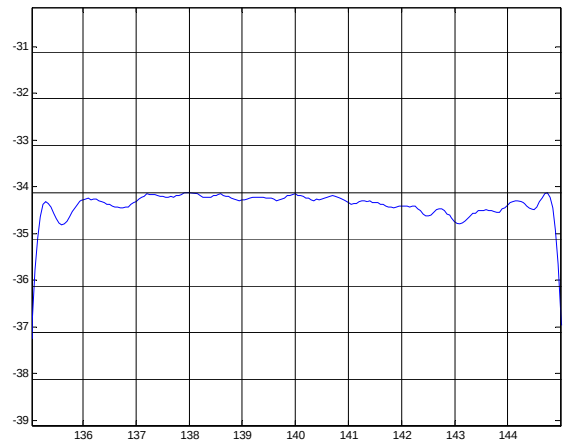
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Typical Performance

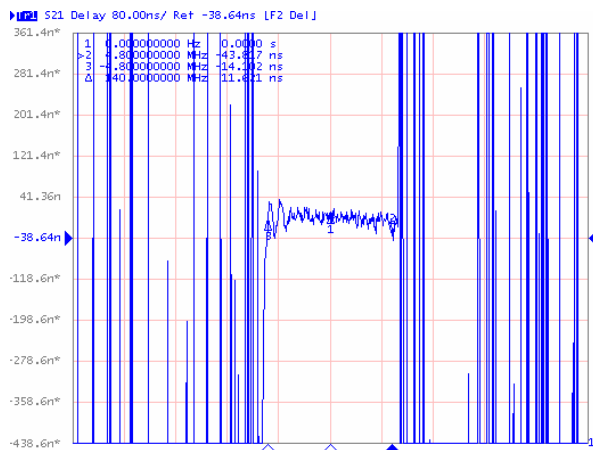
Frequency Respond



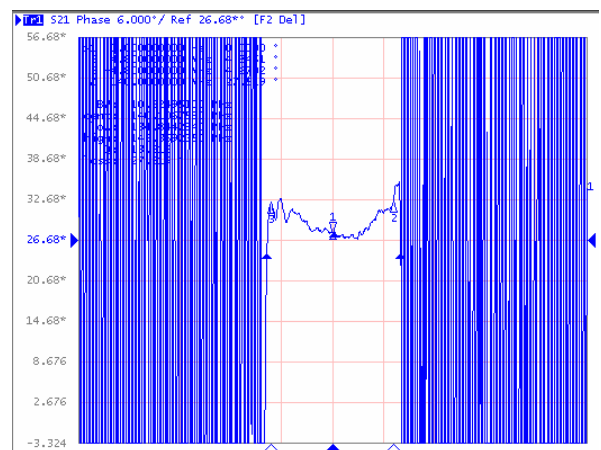
Passband Respond



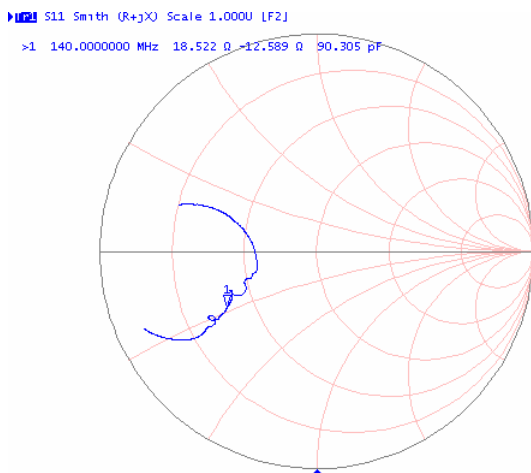
Group Delay Variation($f_0 \pm 4.8\text{MHz}$)



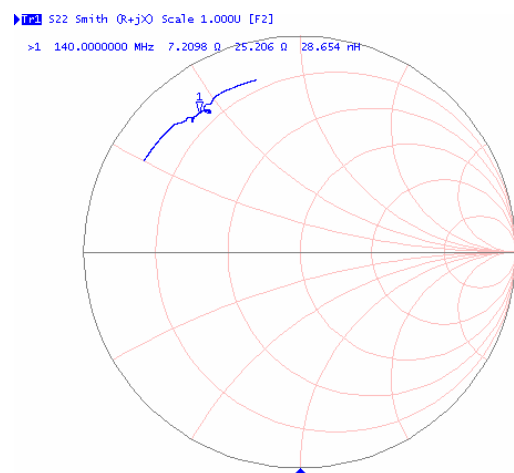
Phase Linearity($f_0 \pm 4.8\text{MHz}$)



Simth Chart S11



Simth Chart S22



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