



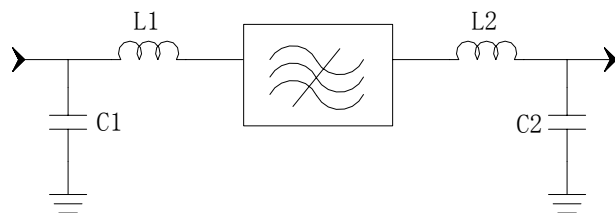
Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	151.7	151.8	151.9
Insertion Loss	dB	-	29.5	31
3 dB Bandwidth	MHz	8.1	8.15	-
30 dB Bandwidth	MHz	-	8.84	8.9
40 dB Bandwidth	MHz	-	8.9	9.2
Group delay Variation ($f_0 \pm 4.05\text{MHz}$)	nsec	-	100	200
Passband Variation	dB	-	0.8	1.2
Absolute Delay	usec	-	3.54	4
Ultimate Rejection	dB	48	50	-
Substrate Material		112 LiTaO ₃		
Ambient Temperature	°C	25		
Package Size		DIP3512 (35.2x12.7x5.2mm 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 L2 = 18nH
C1 = 39pF C2 = 47pF

Source / Load Impedance = 50 ohm

Notes - Component values may change depending
on board layout.



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Part Number

LBT15101

Rev. Date

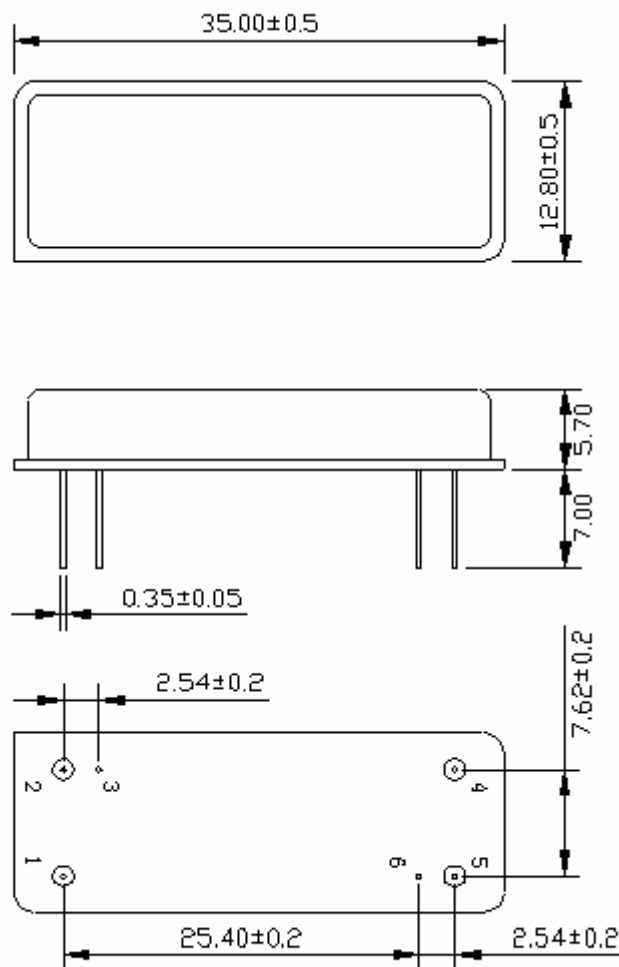
2004-12-30

Rev.

1.0

Page 1/3

Package Dimension

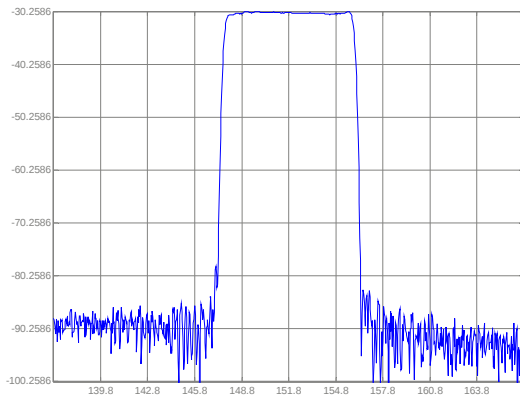


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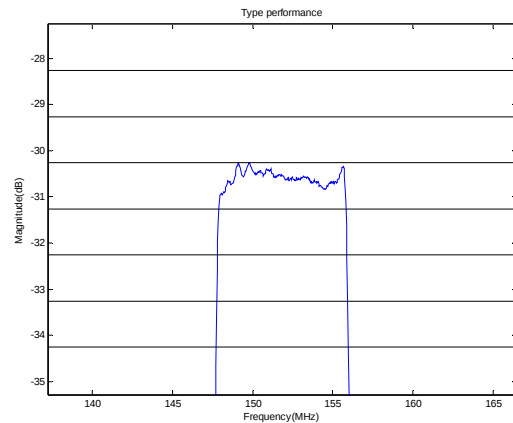
Part Number	LBT15101	
Rev. Date	2004-12-30	
Rev.	1.0	Page 2/3

Typical Performance

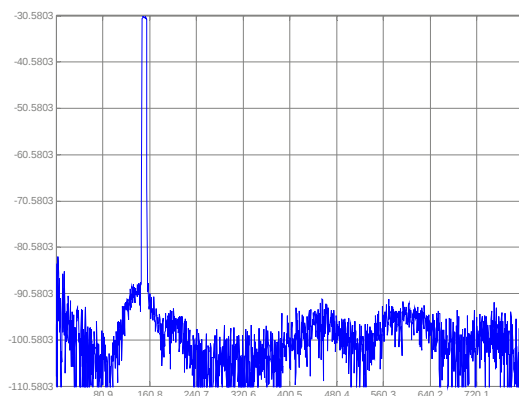
Frequency Response



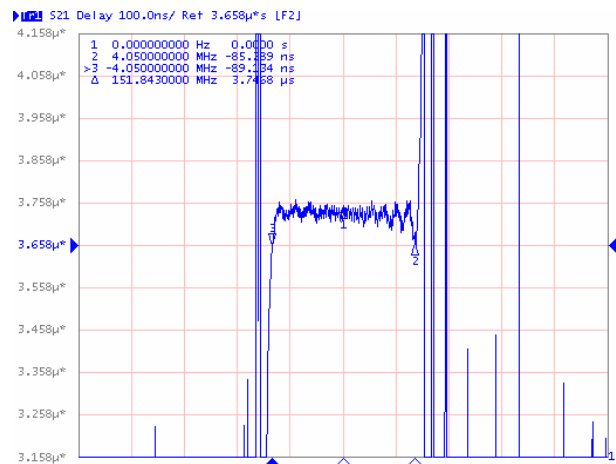
Passband Response



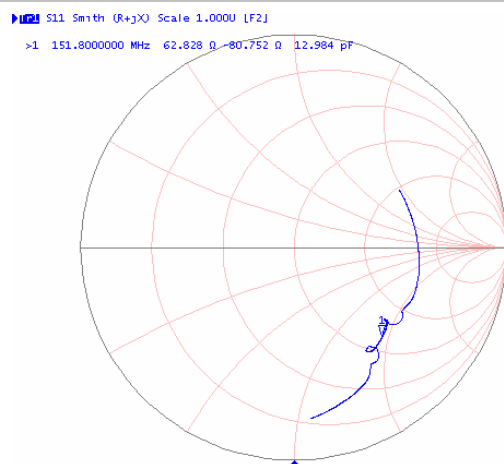
Wideband Response



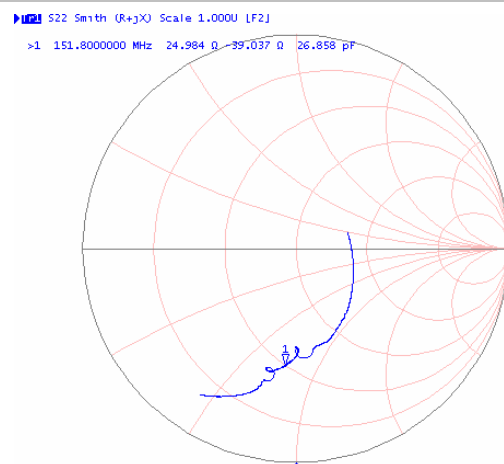
Group delay variation($f_0 \pm 4.05\text{MHz}$)



Smith Chart S11



Smith Chart S22



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Part Number	LBT15101	
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Rev.	1.0	Page 3/3