



### Features


- ◇ For IF SAW filter
- ◇ High attenuation
- ◇ Single-ended operation
- ◇ Dual In-line Package
- ◇ RoHS compliant (2002/95/EC), Pb-free

### Specifications

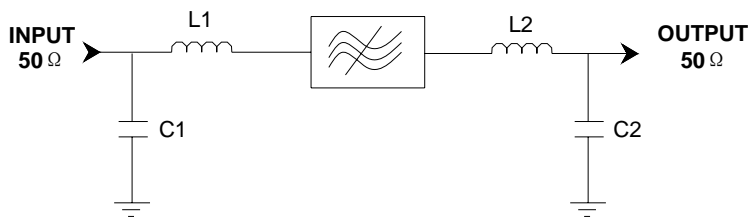
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	132.85	133	133.15
Insertion Loss	dB	-	27.4	28
1.5 dB Bandwidth	MHz	-	10.12	-
3 dB Bandwidth	MHz	10.2	10.23	-
30 dB Bandwidth	MHz	-	10.8	10.85
40 dB Bandwidth	MHz	-	10.88	-
45 dB Bandwidth	MHz	-	10.92	11.2
50 dB Bandwidth	MHz	-	10.97	11.8
Passband Variation	dB	-	0.9	1.5
Absolute Delay	usec	-	4.38	-
Ultimate Rejection( $f_0 \pm 10\text{MHz}$ )	dB	50	64	-
Material Temperature coefficient	KHz/°C	-2.4		
Substrate Material	-	112LT		
Ambient Temperature	°C	25		
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1A		
Package Size	DIP3512 (35.0x12.8x4.7mm3)			

#### Notes:

1. All specifications are based on the test circuit shown;
2. In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room 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.

	<b>SIPAT Co., Ltd.</b> ( CETC No.26 Research Institute ) #14 Nanping Huayuan Road, Chongqing, China, 400060	Part Number	LBT13301	
		Rev. Date	2010-12-06	
		Ver.	1.0	Page

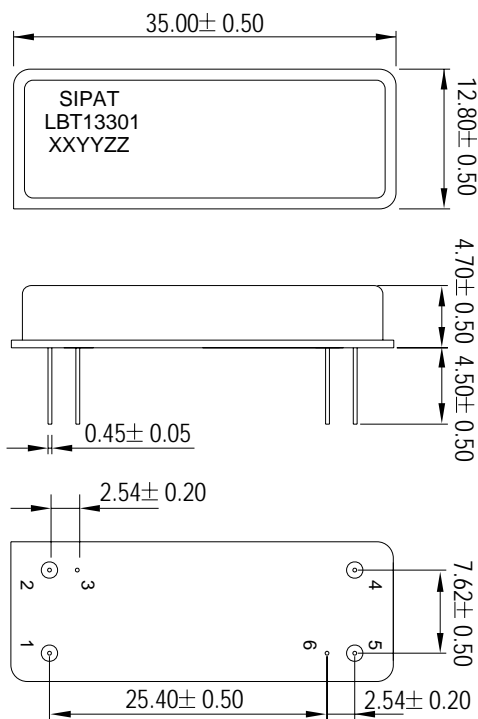
### Matching Configuration



**L1=L2=33nH**  
**C1=C2=47pF**  
**Source/Load Impedance=50 ohm**

Notes - Component values may change depending  
on board layout.

### Package Dimension



#### Pad Configuration:

Input 1  
Output 5  
Ground All Others

#### Marking Configuration:

- 1) SIPAT: Manufacturer Name
- 2) LBT13301: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

**Package: DIP3512**

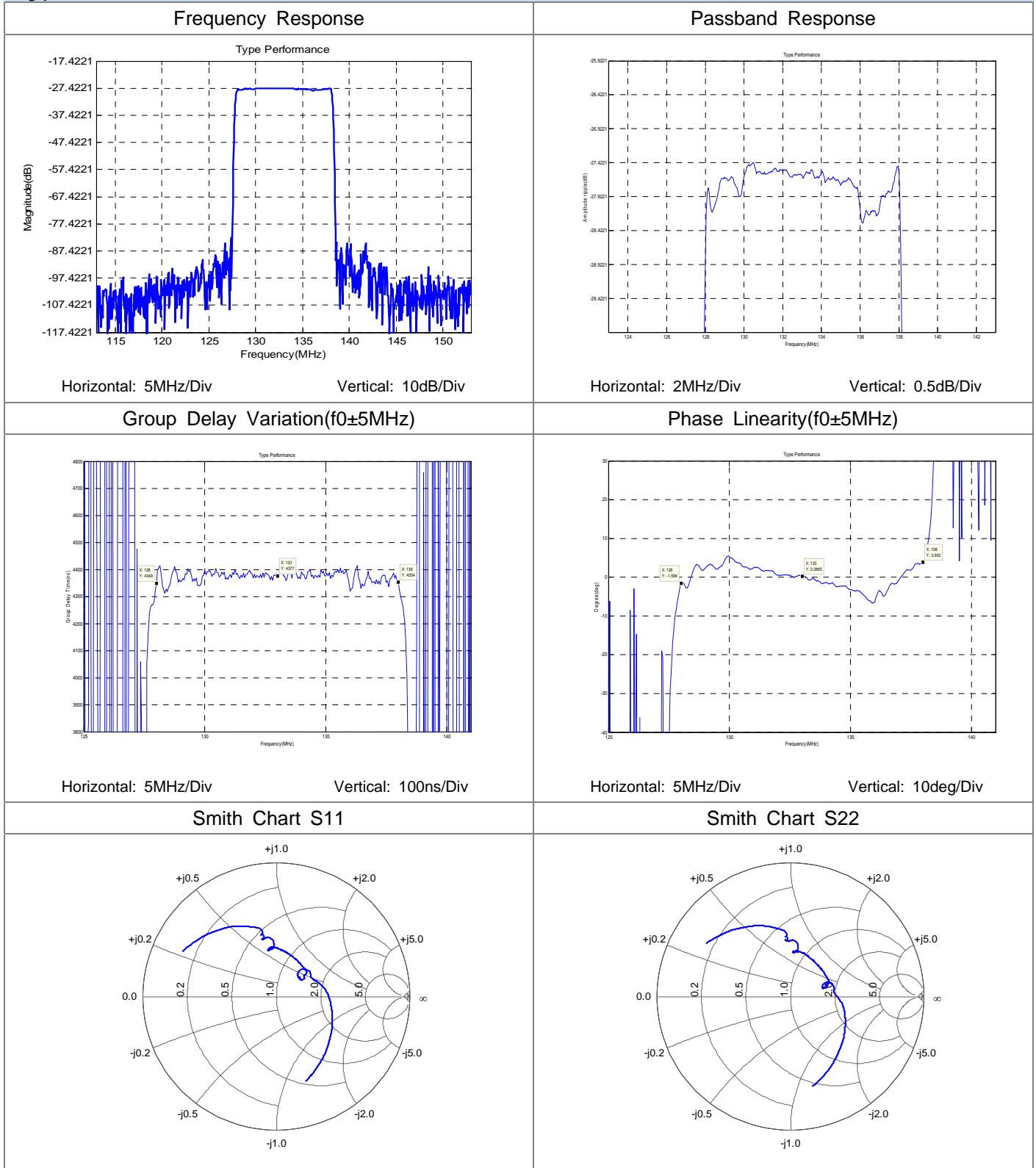
**Unit: mm**



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Part Number	LBT13301	
Rev. Date	2010-12-06	
Ver.	1.0	Page 2/3

Typical Performance



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Part Number	LBT13301	
Rev. Date	2010-12-06	
Ver.	1.0	Page 3/3