



### Features

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

### Specifications

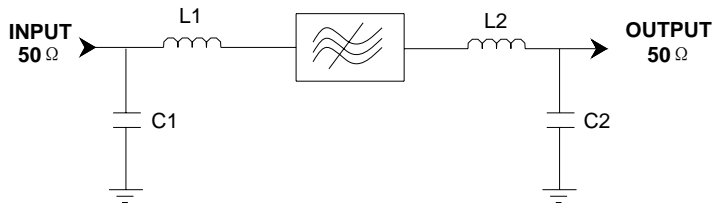
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	149.875	150	150.125
Insertion Loss	dB	-	30.3	31.5
1.5 dB Bandwidth	MHz	10	10.04	-
3 dB Bandwidth	MHz	-	10.18	-
18 dB Bandwidth	MHz	-	10.68	10.8
40 dB Bandwidth	MHz	-	10.95	-
50 dB Bandwidth	MHz	-	11.02	11.2
Passband Variation	dB	-	1.1	1.2
Absolute Delay	usec	-	3.95	4
Ultimate Rejection	dB	50	60	-
Material Temperature coefficient	KHz/°C	-2.7		
Substrate Material	-	112LT		
Ambient Temperature	°C	25		
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-45	-	+105
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1		
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	LBT15013	
		Rev. Date	2007-10-25	
		Ver.	1.0	Page 1/3

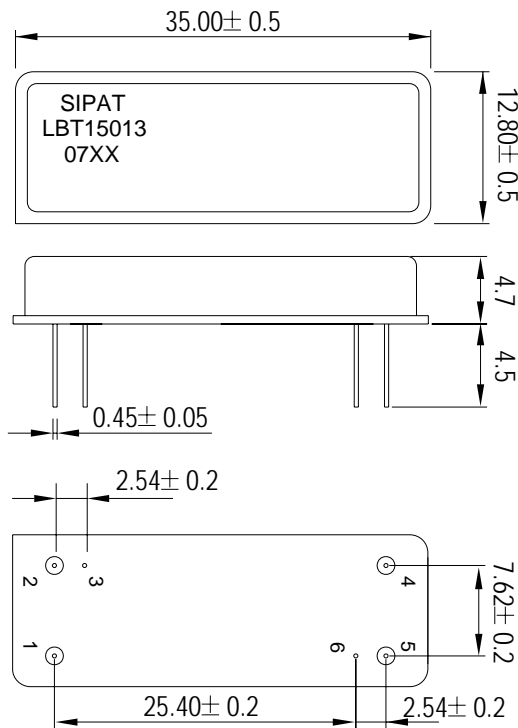
### Matching Configuration



**L1=L2=33nH**  
**C1=39pF C2=36pF**  
**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) LBT15013: Part Number  
3) 07XX: Date Code

Package: DIP3512

Unit: mm



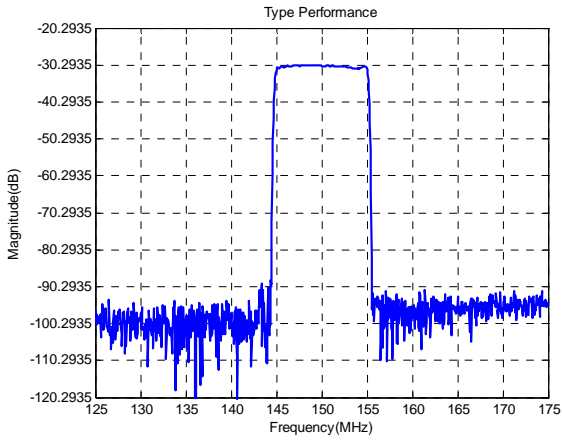
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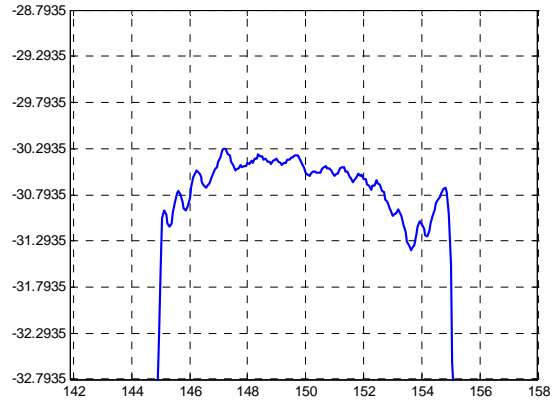
Typical Performance

Frequency Respond



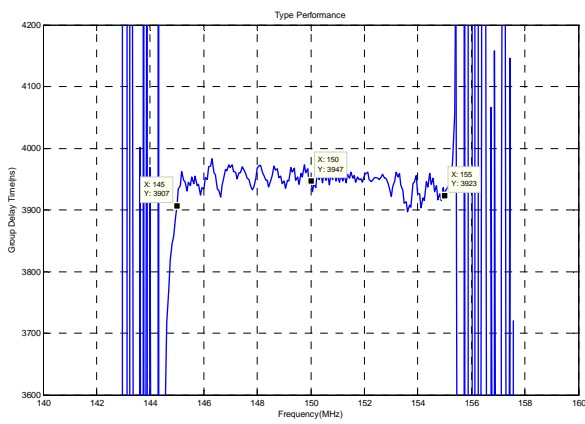
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Respond



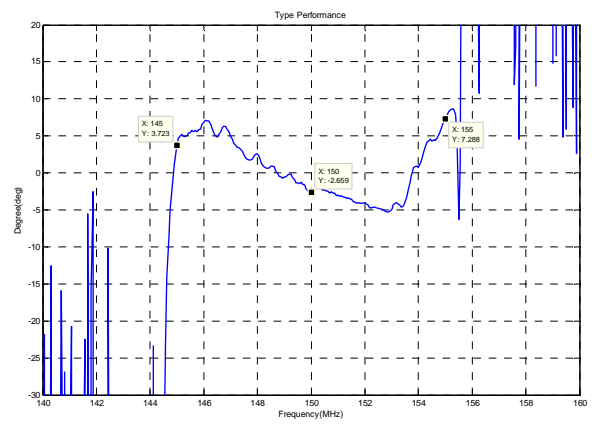
Horizontal: 2MHz/Div Vertical: 0.5dB/Div

Group Delay Variation( $f_0 \pm 5\text{MHz}$ )



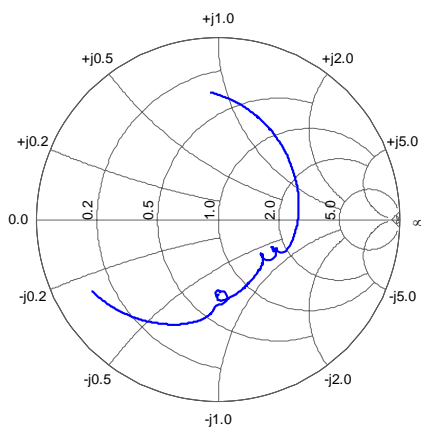
Horizontal: 2MHz/Div Vertical: 100ns/Div

Phase Linearity( $f_0 \pm 5\text{MHz}$ )

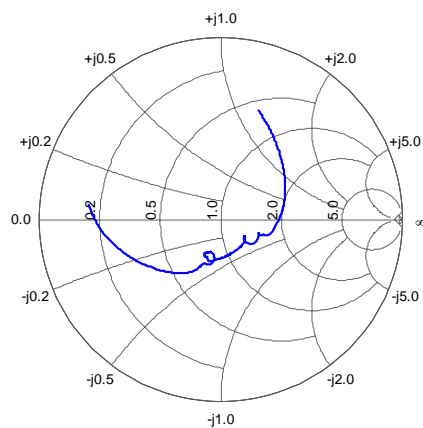


Horizontal: 2MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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