



### Features


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

### Specifications

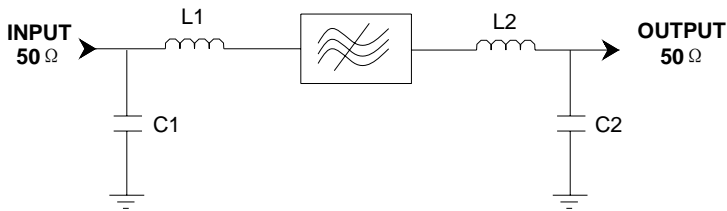
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	114.92	115	115.08
Insertion Loss	dB	22	24	26
3 dB Bandwidth	MHz	9.9	9.98	10.3
40dB Bandwidth	MHz	-	11.27	11.35
50 dB Bandwidth	MHz	-	11.38	12
Passband Variation	dB	-	0.7	1
Absolute Delay	usec	-	3.3	3.5
Group Delay Variation( $f_0 \pm 4.5\text{MHz}$ )	nsec	-	80	300
Ultimate Rejection	dB	50	60	-
Material Temperature coefficient	KHz/°C	-2.07		
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	-	1A		
Package Size	DIP2212 (22.2x12.8x4.7mm3)			

#### 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	LBT11554	
		Rev. Date	2008-03-04	
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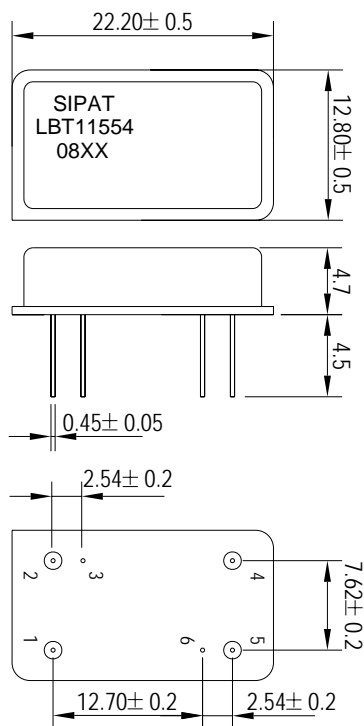
### Matching Configuration



**L1=L2=82nH**  
**C1=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) LBT11554: Part Number  
3) 08XX: Date Code

**Package: DIP2212**

**Unit: mm**

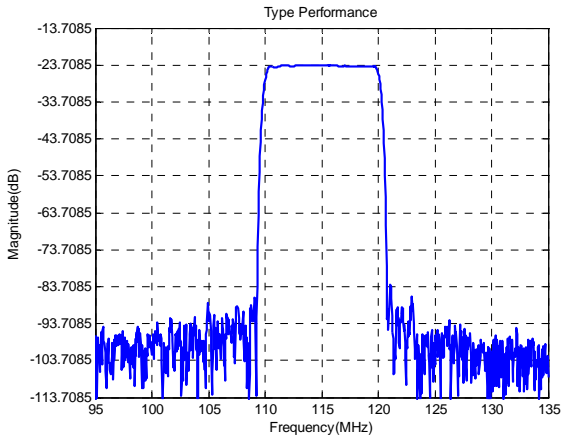


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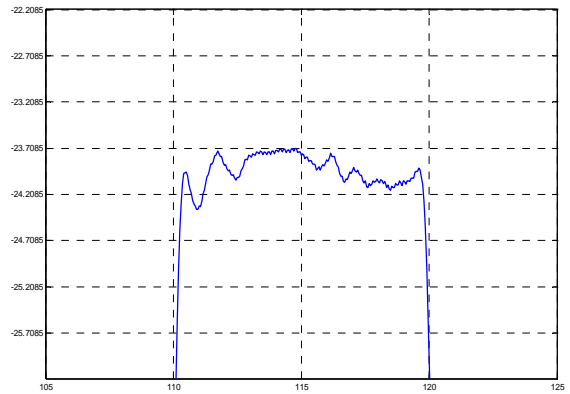
Typical Performance

Frequency Respond



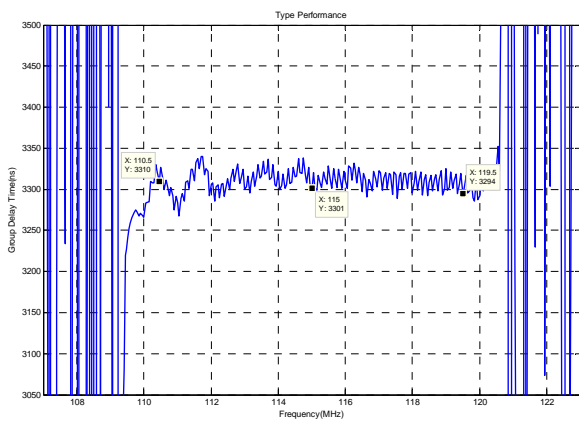
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Respond



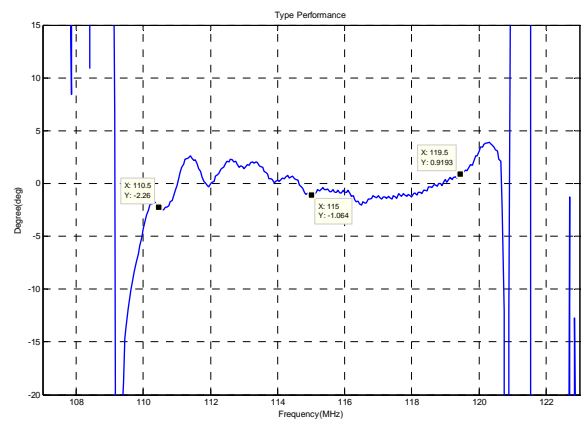
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

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



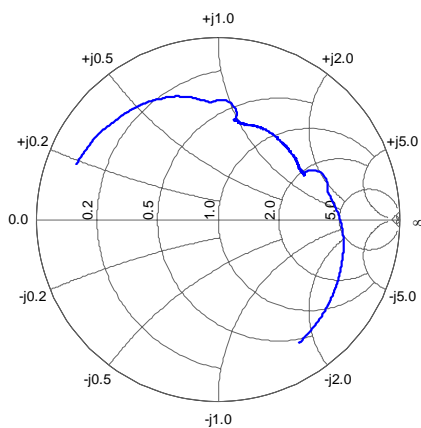
Horizontal: 2MHz/Div Vertical: 50ns/Div

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

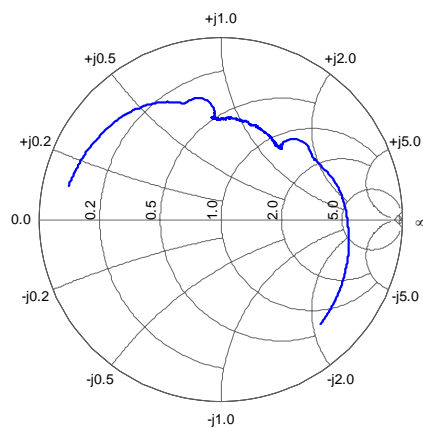


Horizontal: 2MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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