



### 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	106.8	107	107.2
Insertion Loss	dB	-	29	31
1.5 dB Bandwidth	MHz	24.3	24.42	-
3 dB Bandwidth	MHz	-	24.59	-
35 dB Bandwidth	MHz	-	25.4	25.6
40 dB Bandwidth	MHz	-	25.45	-
45 dB Bandwidth	MHz	-	25.5	25.9
50 dB Bandwidth	MHz	-	25.56	26.7
Passband Variation	dB	-	0.9	1.3
Absolute Delay	usec	-	3.17	4
Ultimate Rejection( $f_0 \pm 17\text{MHz}$ )	dB	50	51	-
Material Temperature coefficient	KHz/°C	-10.06		
Substrate Material	-	YZ LN		
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	LBN10704	
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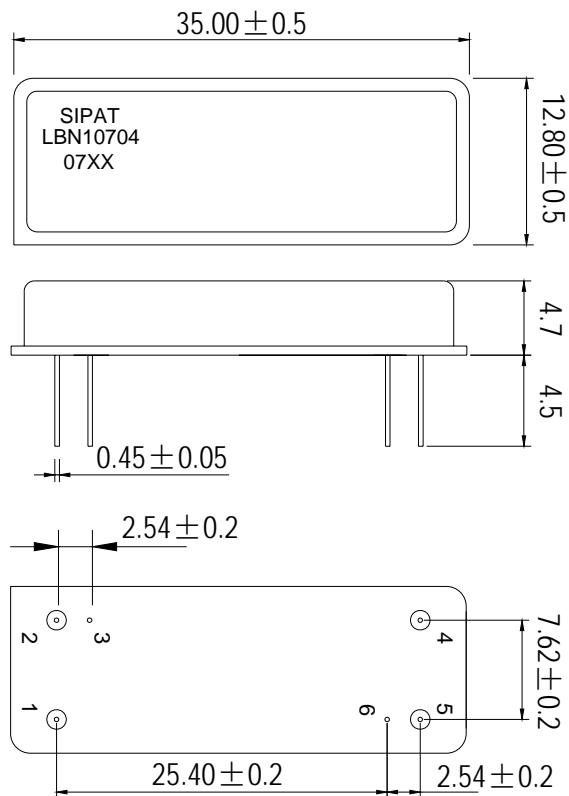
### Matching Configuration



**L1=56nH L2=82nH**  
**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) LBN10704: Part Number
- 3) 07XX: Date Code

Package: DIP3512

Unit: mm

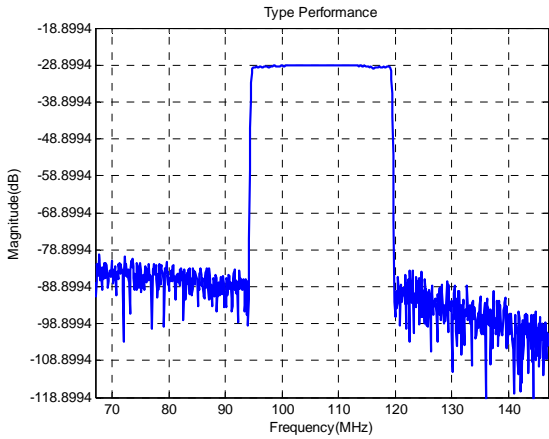


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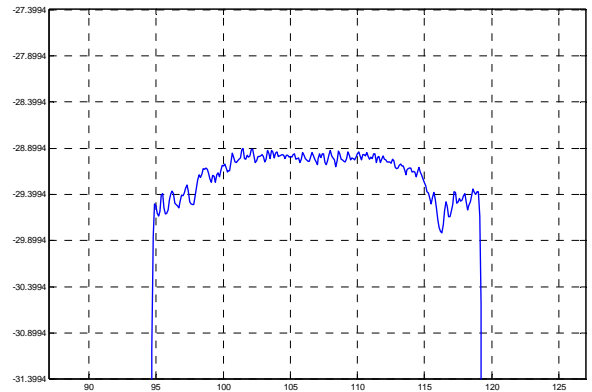
*Typical Performance*

Frequency Respond



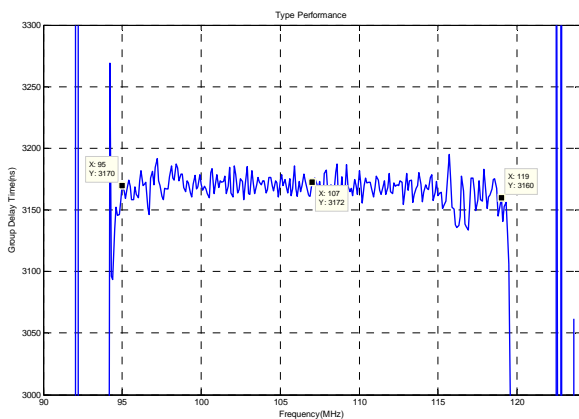
Horizontal: 10MHz/Div Vertical: 10dB/Div

Passband Respond



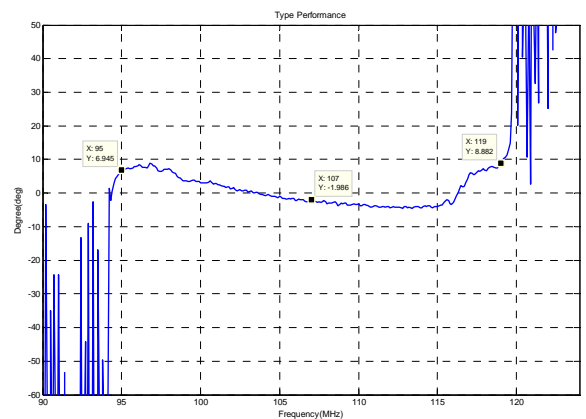
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation( $f_0 \pm 12$ MHz)



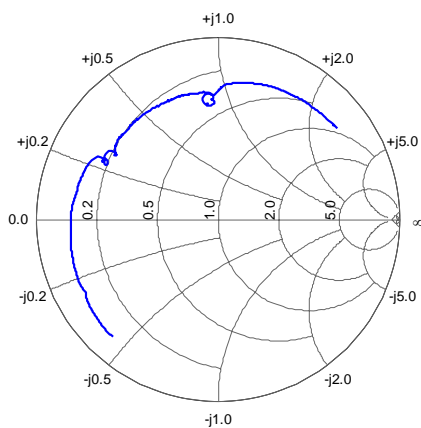
Horizontal: 5MHz/Div Vertical: 50ns/Div

Phase Linearity( $f_0 \pm 12$ MHz)

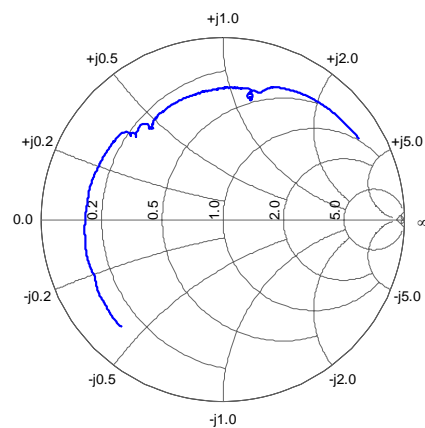


Horizontal: 5MHz/Div Vertical: 10deg/Div

Smith Chart S11



Smith Chart S22



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