



### Features


- ◇ For IF SAW filter
- ◇ Single-ended operation
- ◇ Ceramic Surface Mount Package
- ◇ Small size
- ◇ RoHS compliant (2002/95/EC), Pb-free

### Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	99.05	99.2	99.35
Insertion Loss	dB	-	21	25
1.2 dB Bandwidth	MHz	24.8	25.24	-
3 dB Bandwidth	MHz	25	26.22	-
10 dB Bandwidth	MHz	-	27.96	-
20 dB Bandwidth	MHz	-	29.2	-
35 dB Bandwidth	MHz	-	30.31	31
Passband Variation	dB	-	0.7	1.2
Absolute Delay	usec	-	0.92	1.5
Ultimate Rejection( $f_0 \pm 20\text{MHz}$ )	dB	40	41	-
Material Temperature coefficient	KHz/°C	-8.13		
Substrate Material	-	128LN		
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	SMD13.3*6.5C			

#### 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	LBN09901	
		Rev. Date	2008-07-21	
		Ver.	1.0	Page 1/3

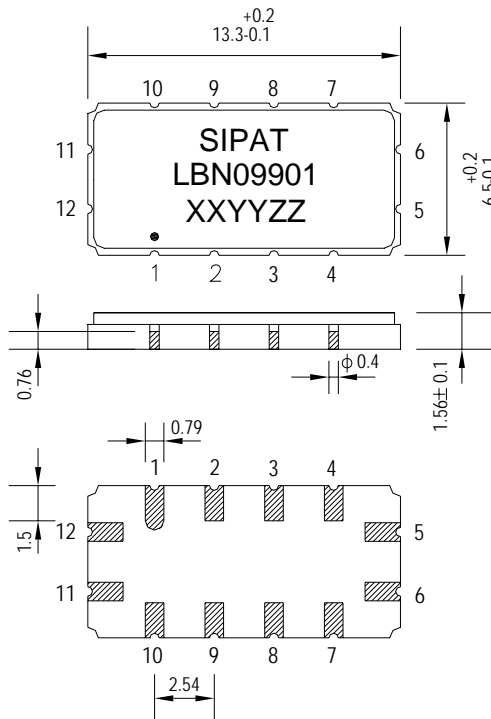
### Matching Configuration



**L1=22nH L2=68nH**  
**Source/Load Impedance=50 ohm**

Notes - Component values may change depending on board layout.

### Package Dimension



#### Pad Configuration:

Input: 11  
Output: 5  
Ground: All Others

#### Marking Configuration:

- 1) •: Pad Number 1 Index
- 2) SIPAT: Manufacturer Name
- 3) LBN09901: Part Number
- 4) XXYY: Date(Year/month)
- 5) ZZ: Identified Code

**Package: SMD13.3\*6.5C**

**Unit: mm**



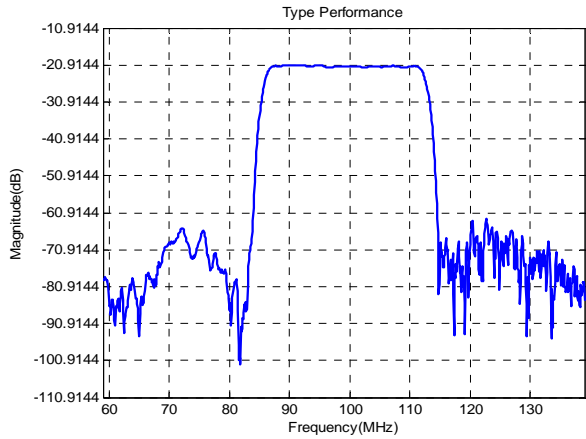
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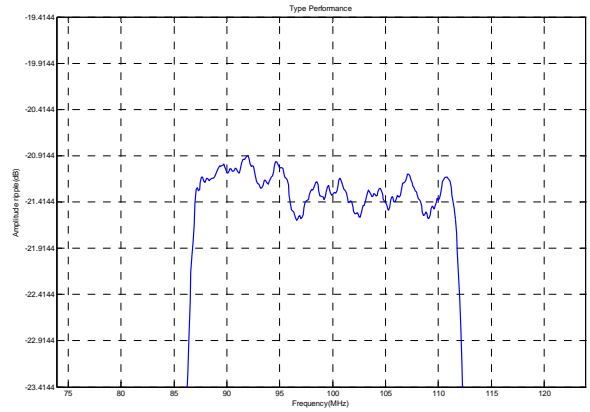
Typical Performance

Frequency Respond



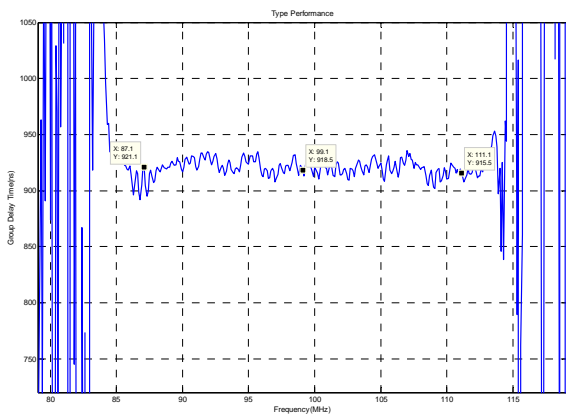
Horizontal: 10MHz/Div Vertical: 10dB/Div

Passband Respond



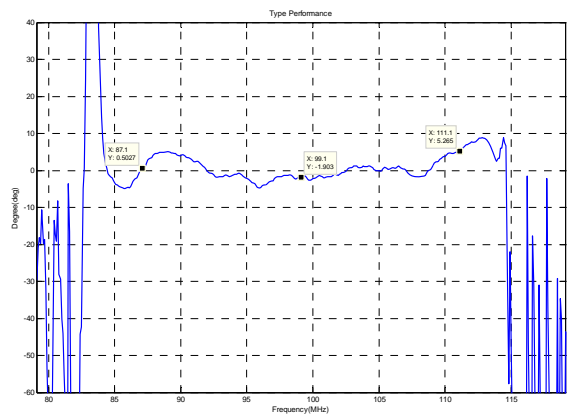
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±22MHz)



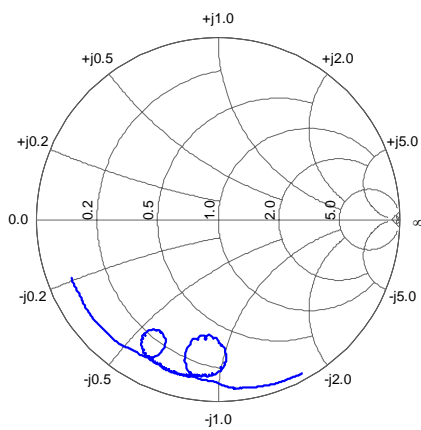
Horizontal: 5MHz/Div Vertical: 50ns/Div

Phase Linearity(f0±22MHz)

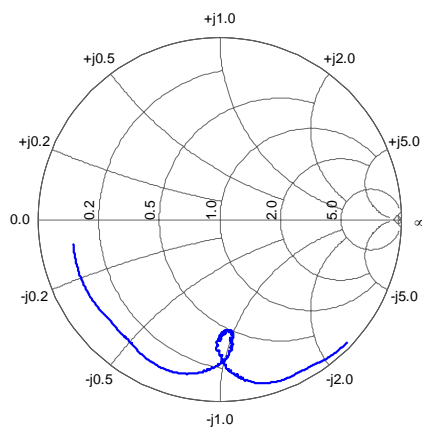


Horizontal: 5MHz/Div Vertical: 10deg/Div

Smith Chart S11



Smith Chart S22



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