



### Features

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

### Specifications

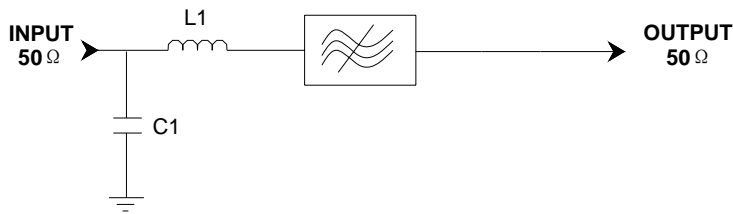
Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	119.5	120	120.5
Insertion Loss	dB	-	22.5	25
3 dB Bandwidth	MHz	-	69.83	-
Passband Variation	dB	-	1	-
Absolute Delay	usec	-	1.16	-
Group Delay variation(f0±35MHz)	nsec	-	13	-
Ultimate Rejection	@f0±38~f0±45MHz	dB	-	8
	@ f0±55MHz	dB	-	45
	DC~500MHz	dB	-	27
Material Temperature coefficient	KHz/°C	-9.84		
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	-	1		
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	LBN12026	
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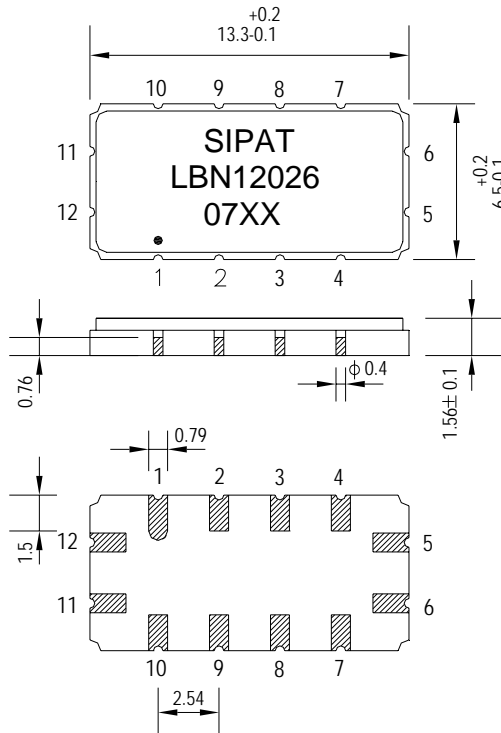
### Matching Configuration



**L1=27nH C1=4.7pF**  
**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) LBN12026: Part Number
- 4) 07XX: Date Code

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

**Unit: mm**

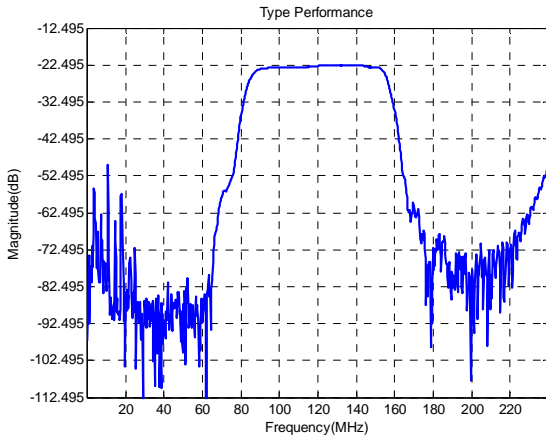


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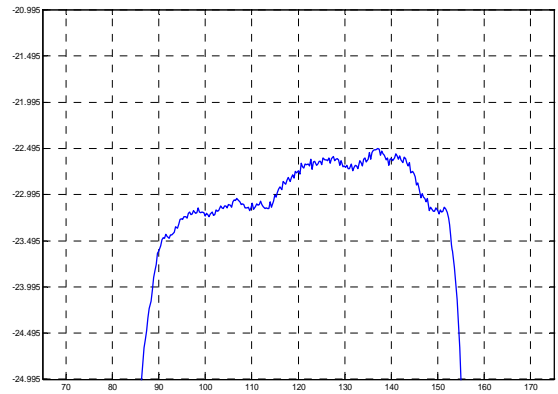
Typical Performance

Frequency Respond



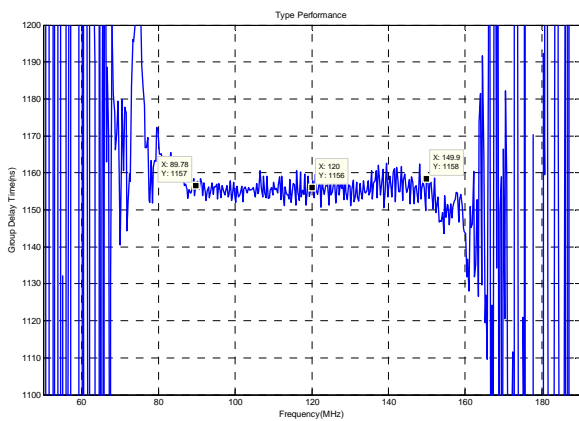
Horizontal: 20MHz/Div Vertical: 10dB/Div

Passband Respond



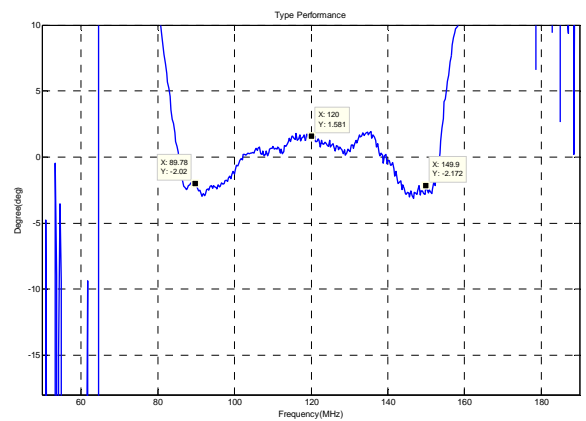
Horizontal: 10MHz/Div Vertical: 0.5dB/Div

Group Delay Variation( $f_0 \pm 30\text{MHz}$ )



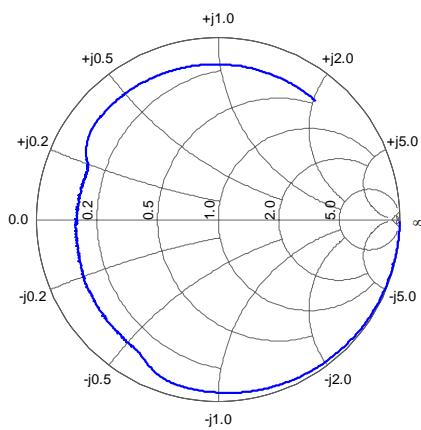
Horizontal: 20MHz/Div Vertical: 10ns/Div

Phase Linearity( $f_0 \pm 30\text{MHz}$ )

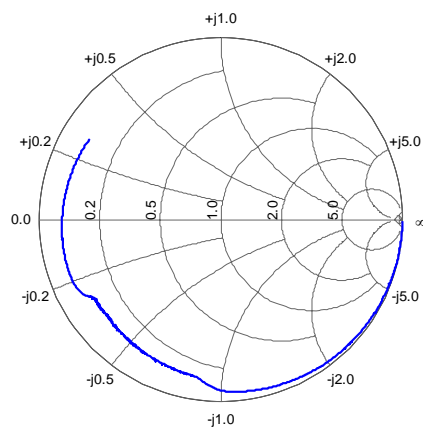


Horizontal: 20MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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