



### Features

- ◇ For IF SAW filter
- ◇ High attenuation
- ◇ Single-ended operation
- ◇ Dual In-line Package

### Specifications

Parameter	Unit	Minimum	Typical	Maximum	
Center Frequency	MHz	129.35	129.5	129.65	
Insertion Loss	dB	-	22.4	26	
3 dB Bandwidth	MHz	7.4	7.47	-	
40 dB Bandwidth	MHz	-	8.13	-	
Passband Variation	dB	-	1.3	1.5	
Absolute Delay	usec	-	4.16	-	
Ultimate Rejection	$f_0 \pm 4.15\text{MHz}$	dB	35	58	-
	$f_0 \pm 4.35\text{MHz}$	dB	45	60	-
	$f_0 \pm 4.75\text{MHz}$	dB	50	56	-
	$f_0 \pm 8.75\text{MHz}$	dB	55	61	-
	$f_0 \pm 15\text{MHz}$	dB	55	65	-
Material Temperature coefficient	KHz/°C	-12.17			
Substrate Material	-	YZ			
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	LBN13008	
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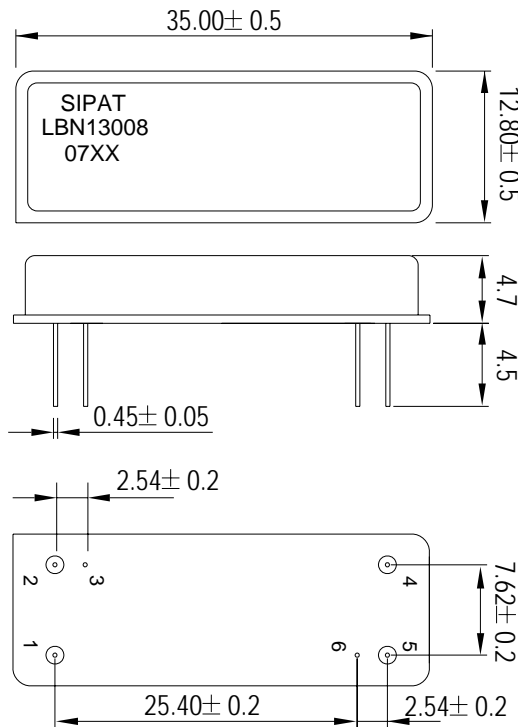
### Matching Configuration



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) LBN13008: Part Number
- 3) 07XX: Date Code

Package: DIP3512

Unit: mm

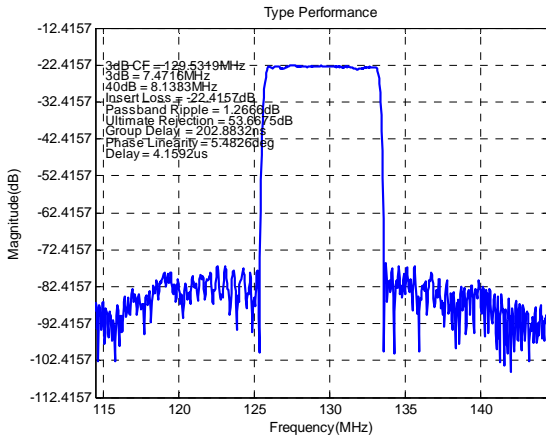


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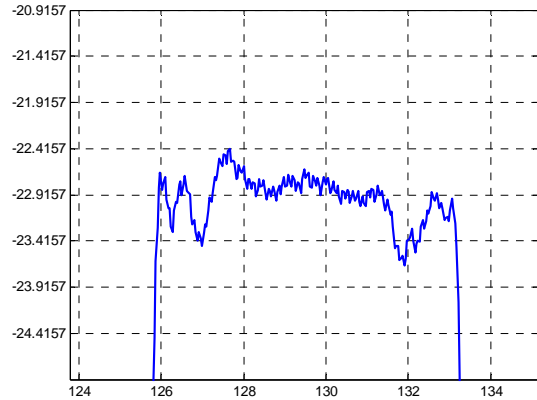
Typical Performance

Frequency Respond



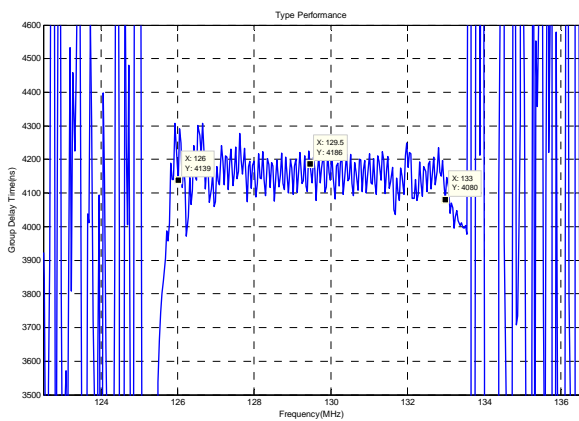
Horizontal: 5MHz/Div Vertical: 10dB/Div

Passband Respond



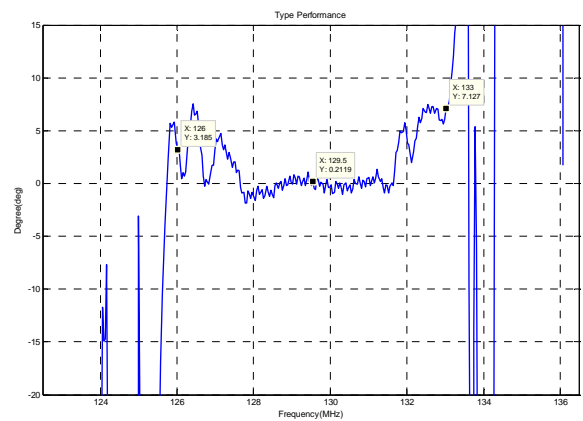
Horizontal: 2MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±3.5MHz)



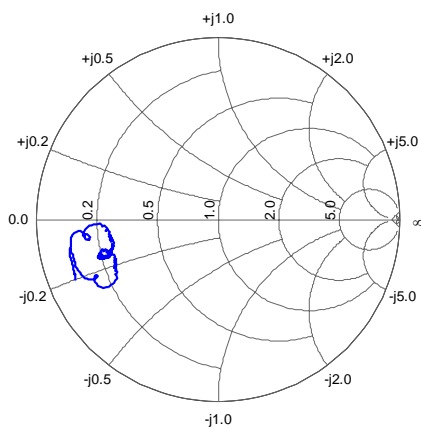
Horizontal: 2MHz/Div Vertical: 100ns/Div

Phase Linearity(f0±3.5MHz)

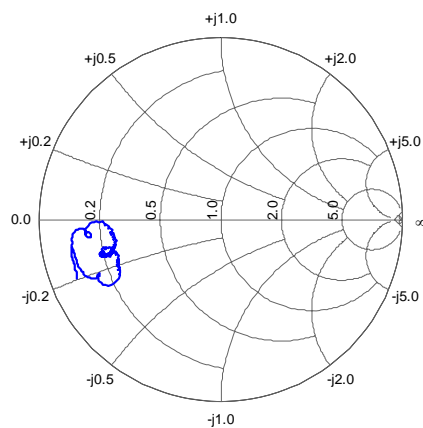


Horizontal: 2MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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