



### Features

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

### Specifications

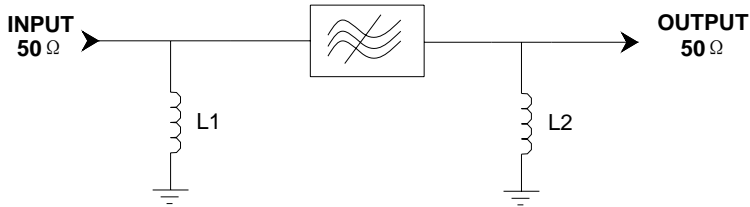
Parameter	Unit	Minimum	Typical	Maximum	
Center Frequency	MHz	89.85	90	90.15	
Insertion Loss	dB	-	25.8	29	
1 dB Bandwidth	MHz	-	7.29	-	
3 dB Bandwidth	MHz	7.4	7.49	-	
40 dB Bandwidth	MHz	-	8.17	-	
Passband Variation	dB	-	0.7	1	
Absolute Delay	usec	-	4.2	-	
Ultimate Rejection	$f_0 \pm 4.1\text{MHz}$	dB	35	42	-
	$f_0 \pm 4.3\text{MHz}$	dB	45	55	-
	$f_0 \pm 4.7\text{MHz}$	dB	50	56	-
	$f_0 \pm 8.7\text{MHz}$	dB	55	64	-
Material Temperature coefficient	KHz/°C	-1.62			
Substrate Material	-	112LT			
Ambient Temperature	°C	25			
DC Voltage	V	0			
Input Power	dBm	-	-	10	
ESD Class	-	1A			
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	LBT09030	
		Rev. Date	2010-09-25	
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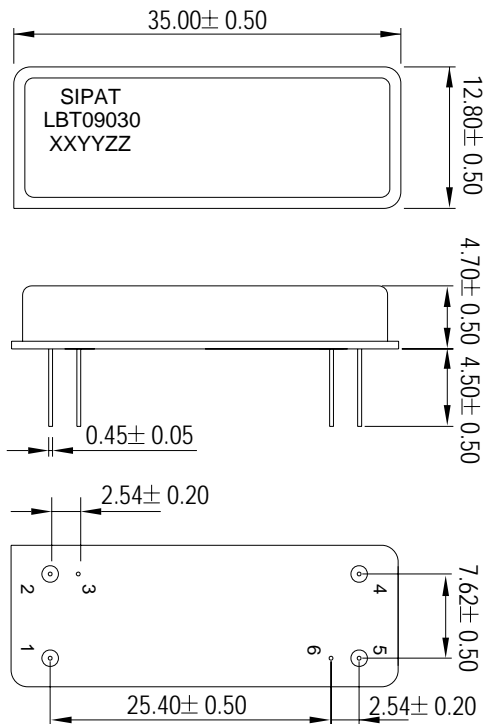
### Matching Configuration



**L1=L2=47nH**  
**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) LBT09030: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: DIP3512

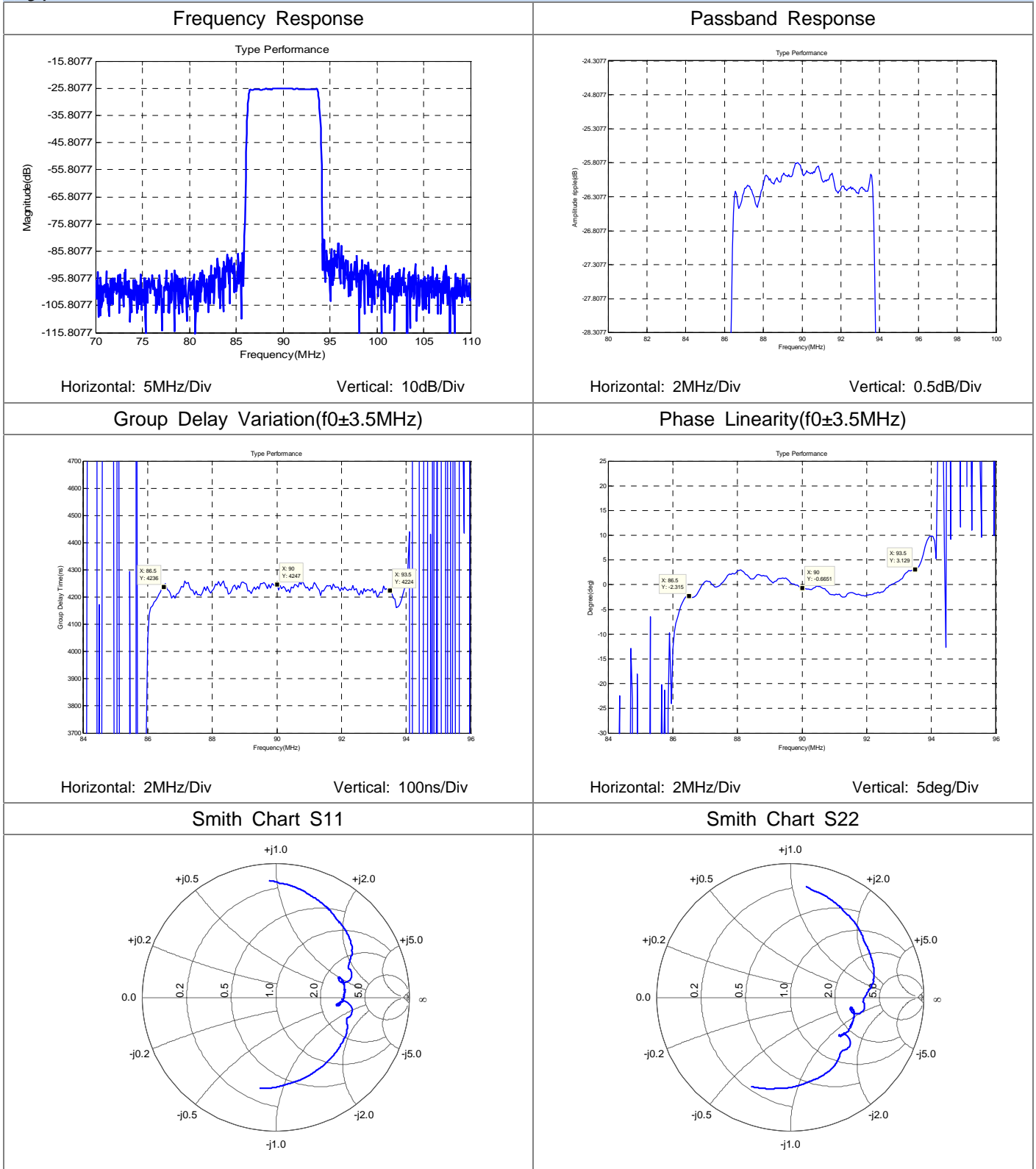
Unit: mm



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Typical Performance



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