



### 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	164.85	165	165.15	
Insertion Loss	dB	-	24.8	26	
3dB Bandwidth	MHz	7.5	7.62	-	
20dB Bandwidth	MHz	-	8.17	8.3	
Passband Variation	dB	-	0.6	1.2	
Absolute Delay	usec	-	3.78	4.0	
Ultimate Rejection	( $f_0 \pm 4.15\text{MHz}$ )	dB	18	20	-
	( $f_0 \pm 4.35\text{MHz}$ )	dB	35	38	-
	( $f_0 \pm 4.75\text{MHz}$ )	dB	45	48	-
	( $f_0 \pm 8.75\text{MHz}$ )	dB	50	52	-
Material Temperature coefficient	KHz/°C	-2.97			
Substrate Material	-	112-LT			
Ambient Temperature	°C	25			
Operating Temperature Range	°C	-25	-	+85	
Storage Temperature Range	°C	-45	-	+105	
DC Voltage	V	0			
Input Power	dBm	-	-	10	
ESD Class	-	1A			
Package Size	DIP3512 (35*12.6*5.2mm3)				

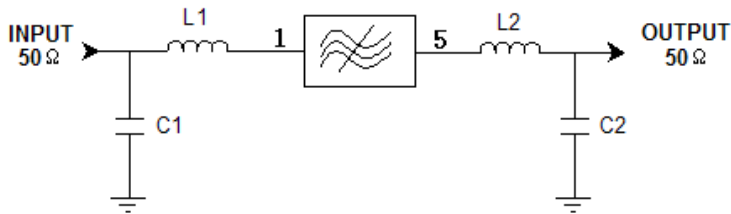
#### Notes:

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	LBT16506	
		Rev. Date	2012-01-10	
		Ver.	1.0	Page 1/3

### Matching Configuration

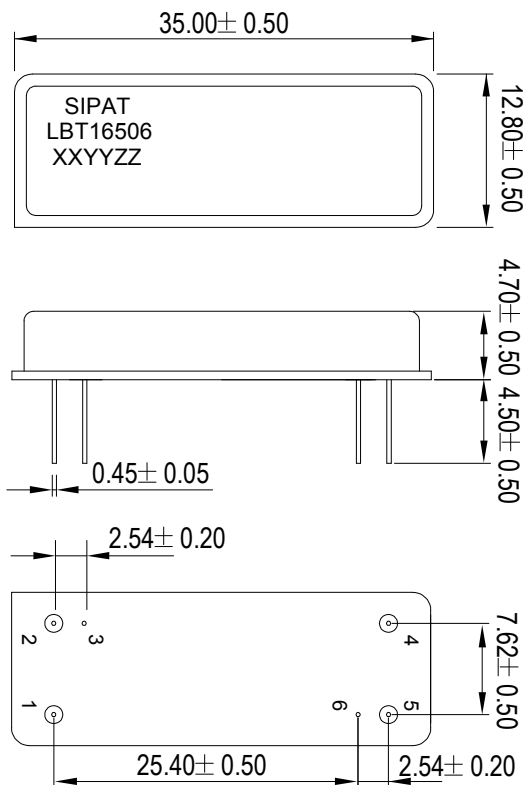
手动测试座



**L1=22nH L2=22nH**  
**C1=33pF C2=33pF**  
**Source/Load Impedance=50 ohm**

Notes - Component values may change depending on board layout.

### Package Dimension



#### Pad Configuration:

Input 1  
Output 5  
Ground 2、3、4、6

#### Marking Configuration:

- 1) SIPAT: Manufacturer Name
- 2) LBT16506: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

**Package: DIP3512**

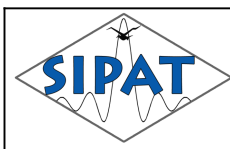
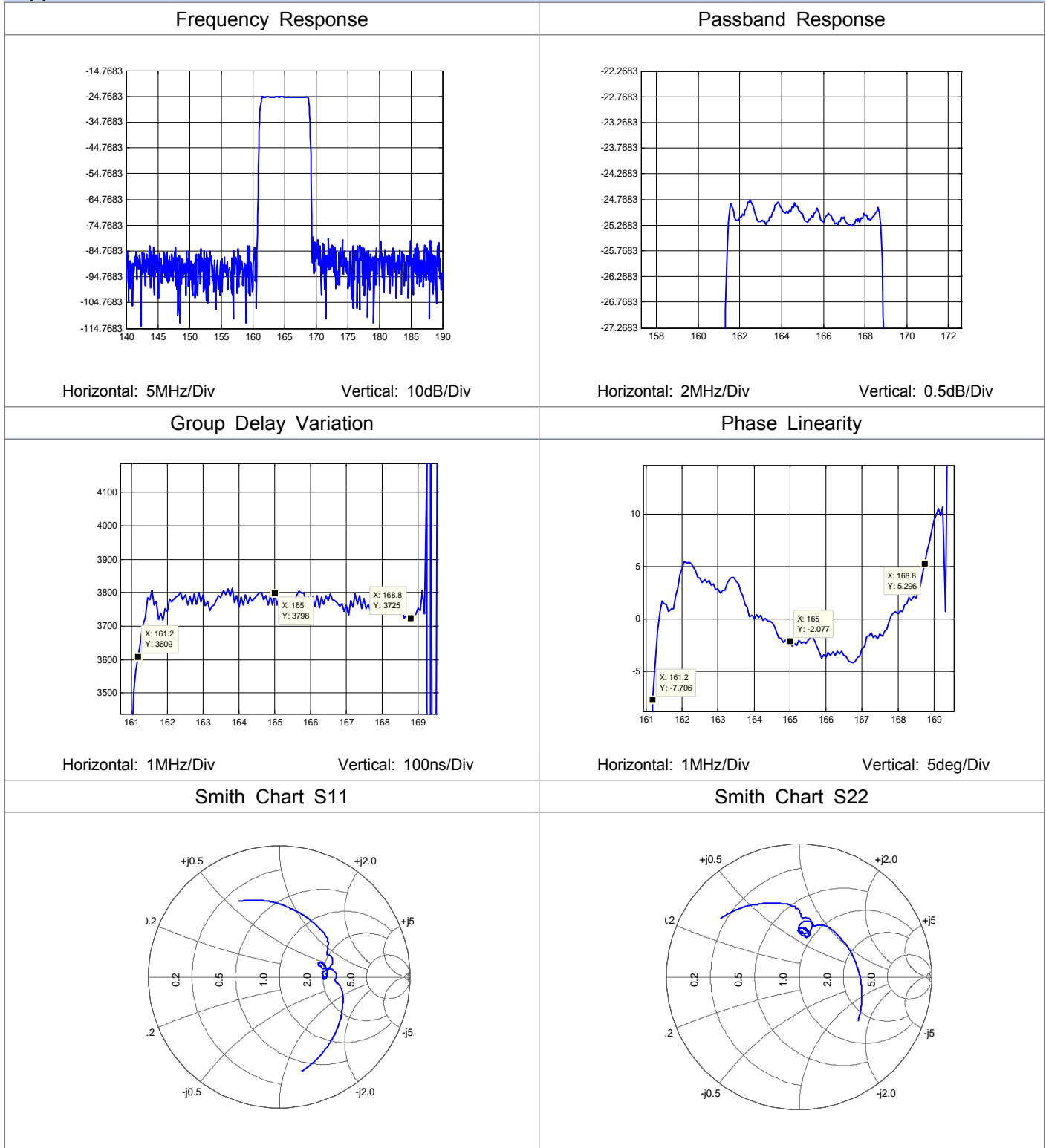
**Unit: mm**



**SIPAT Co., Ltd.**  
( CETC No.26 Research Institute )  
#14 Nanping Huayuan Road,  
Chongqing, China, 400060

Part Number	LBT16506	
Rev. Date	2012-01-10	
Ver.	1.0	Page 2/3

*Typical Performance*



**SIPAT Co., Ltd.**  
( CETC No.26 Research Institute )  
#14 Nanping Huayuan Road,  
Chongqing, China, 400060

Part Number	LBT16506	
Rev. Date	2012-01-10	
Ver.	1.0	Page 3/3