



### Features

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

### Specifications

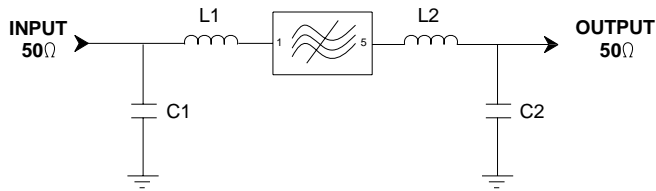
Parameter	Unit	Minimum	Typical	Maximum	
Center Frequency	MHz	103.6	103.7	103.8	
Insertion Loss	dB	-	24.1	27	
1.5 dB Bandwidth	MHz	2.65	2.72	-	
Passband Variation	dB	-	0.4	1	
Phase Linearity( $f_0 \pm 1.2\text{MHz}$ )	deg	-	3	7	
Absolute Delay	usec	-	3.99	4	
Ultimate Rejection	$f_0 \pm 1.75\text{MHz}$	dB	35	41	-
	$f_0 \pm 1.95\text{MHz}$	dB	45	50	-
	$f_0 \pm 2.35\text{MHz}$	dB	50	51	-
Material Temperature coefficient	KHz/°C	0.1			
Substrate Material	-	Qz			
Ambient Temperature	°C	25			
Operating Temperature Range	°C	-25	-	+85	
DC Voltage	V	0			
Input Power	dBm	-	-	10	
ESD Class	-	1C			
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	LBS10402	
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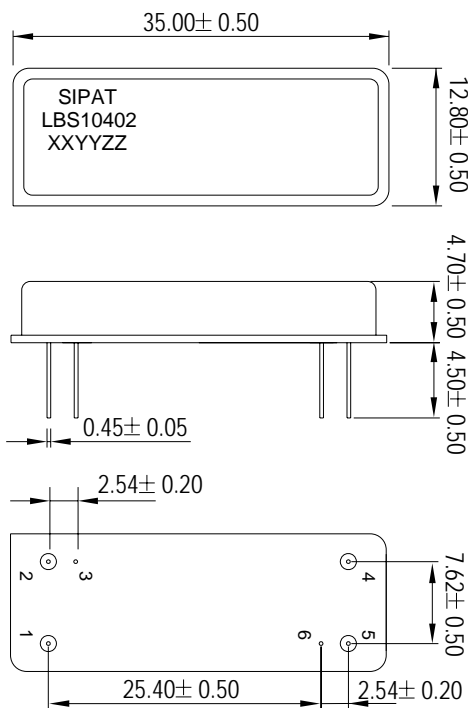
### Matching Configuration



**L1=150nH L2=120nH**  
**C1=22pF C2=36pF**  
**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) LBS10402: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

**Package: DIP3512**

**Unit: mm**

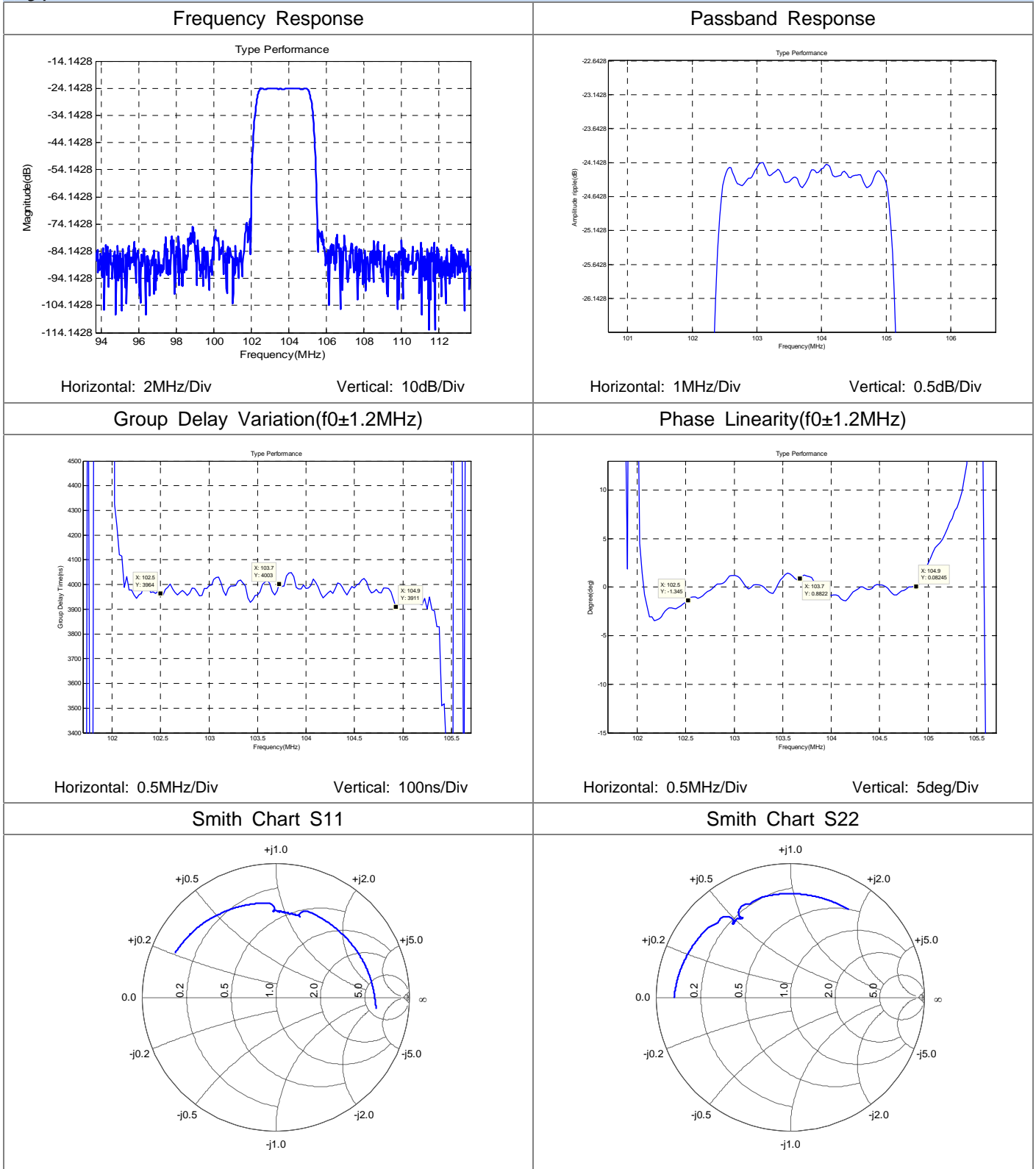


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Typical Performance



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