



### Features


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

### Specifications

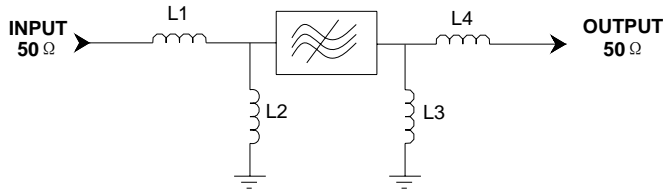
Parameter	Unit	Minimum	Typical	Maximum	
Center Frequency	MHz	139.8	140	140.2	
Insertion Loss	dB	-	10.1	13	
1 dB Bandwidth	MHz	4.9	5.04	-	
3 dB Bandwidth	MHz	-	5.91	-	
35 dB Bandwidth	MHz	-	8.97	9.2	
Passband Variation( $f_0 \pm 2.5\text{MHz}$ )	dB	-	0.9	1	
Absolute Delay	usec	-	1	-	
Group Delay Variation( $f_0 \pm 2\text{MHz}$ )	nesc	-	140	200	
Ultimate Rejection	Inside of $f_0 \pm 10\text{MHz}$	dB	37	41	-
	Outside of $f_0 \pm 10\text{MHz}$	dB	40	47	-
Material Temperature coefficient	KHz/°C	-2.52			
Substrate Material	-	112LT			
Ambient Temperature	°C	25			
DC Voltage	V	0			
Input Power	dBm	-	-	10	
ESD Class	-	1A			
Package Size	SMD13.3*6.5				

#### 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	LB140DS05	
		Rev. Date	2009-12-17	
		Ver.	3.0	Page

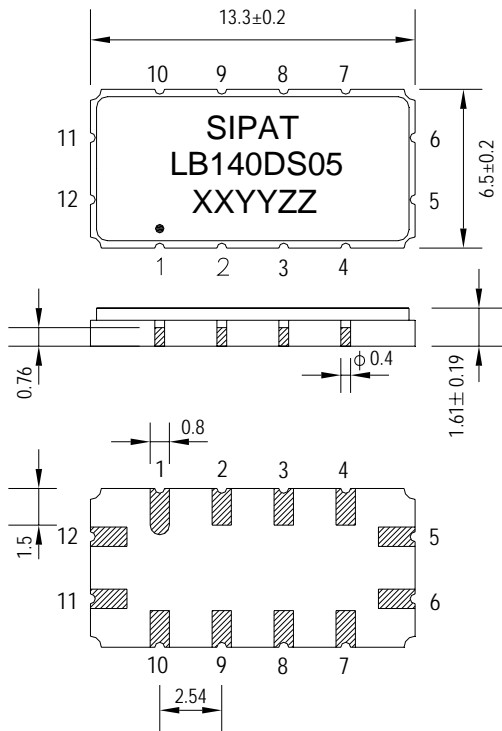
### Matching Configuration



**L1=82nH L2=150nH**  
**L3=120nH L4=68nH**  
**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) LB140DS05: Part Number
- 4) XXYY: Date(Year/month)
- 5) ZZ: Identified Code

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

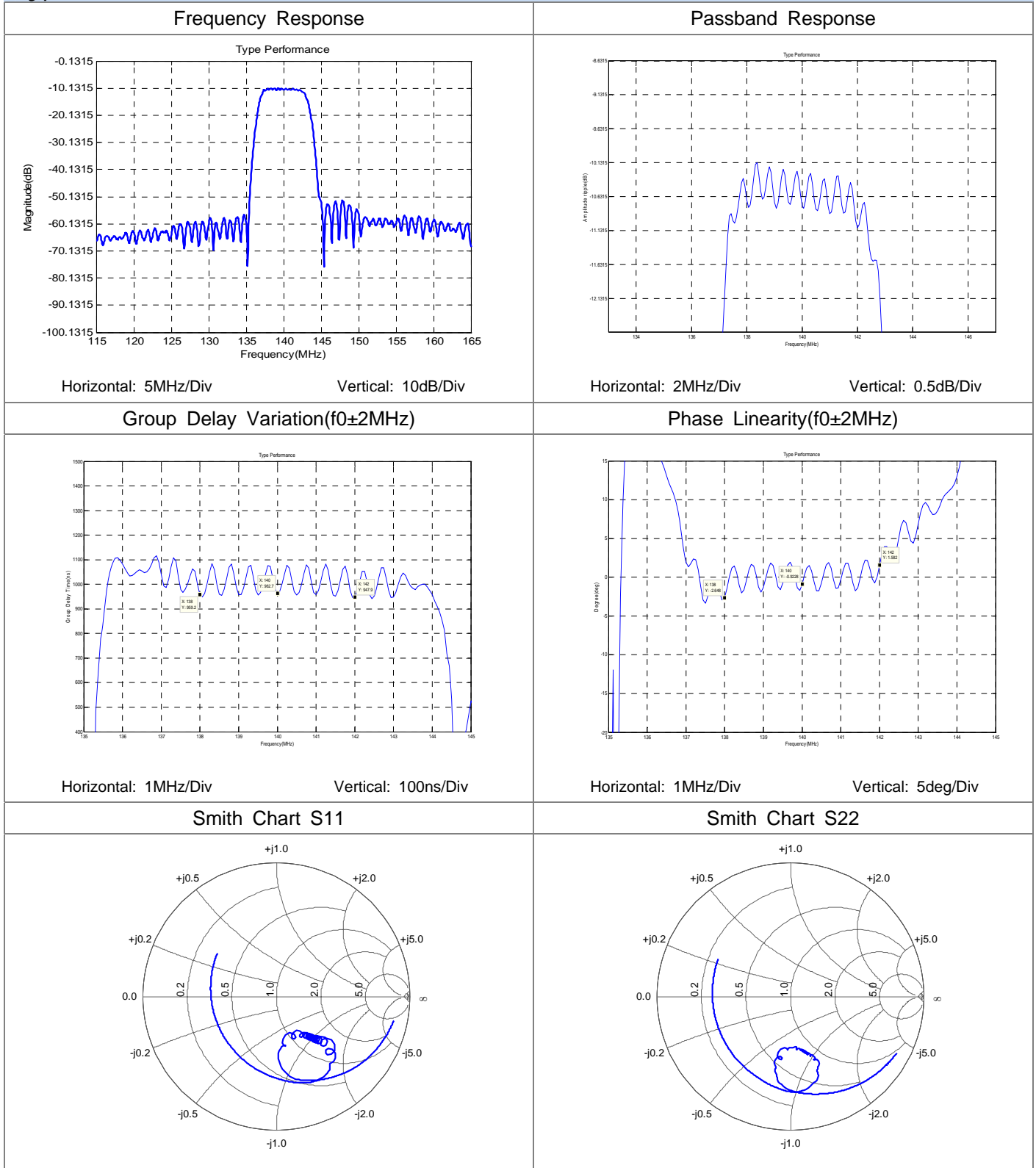
**Unit: mm**



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Rev. Date	2009-12-17	
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Typical Performance



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Rev. Date	2009-12-17	
Ver.	3.0	Page 3/3