



### Features


- ◇ For RF SAW filter
- ◇ Single-ended operation
- ◇ Ceramic Surface Mount Package
- ◇ Small size
- ◇ No matching required for operation at 50Ω
- ◇ RoHS compliant (2002/95/EC), Pb-free

### Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	999	1000	1001
Insertion Loss	dB	-	21.3	23
1 dB Bandwidth	MHz	2	2.2	-
3 dB Bandwidth	MHz	-	3.67	-
20 dB Bandwidth	MHz	-	8	10.5
Passband Variation	dB	-	0.3	0.8
Group Delay Variation( $f_0 \pm 1\text{MHz}$ )	us	0.95	1	1.05
Ultimate Rejection	dB	-	28	-
Material Temperature coefficient	KHz/°C	1.0		
Substrate Material	-	Qz		
Ambient Temperature	°C	25		
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1C		
Package Size	SMD7.0*5.0			

#### 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	LBS100001	
		Rev. Date	2011-01-28	
		Ver.	1.1	Page

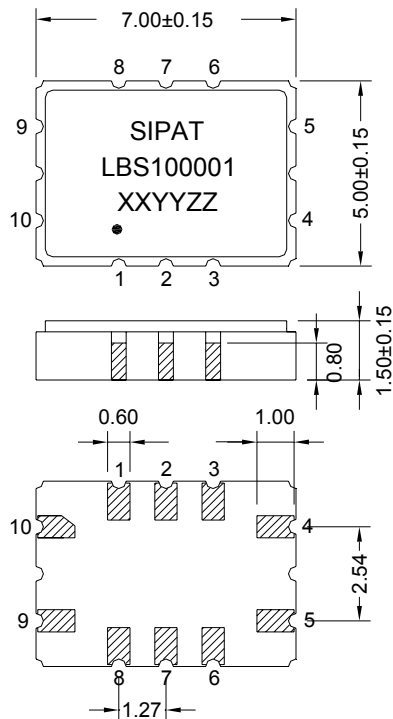
### Matching Configuration



Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

### Package Dimension



#### Pad Configuration:

Input: 9  
Output: 4  
Ground: All Others

#### Marking Configuration:

- 1) •: Pad Number 1 Index
- 2) SIPAT: Manufacturer Name
- 3) LBS100001: Part Number
- 4) XXYY: Date(Year/month)
- 5) ZZ: Identified Code

Package: SMD7.0\*5.0

Unit: mm

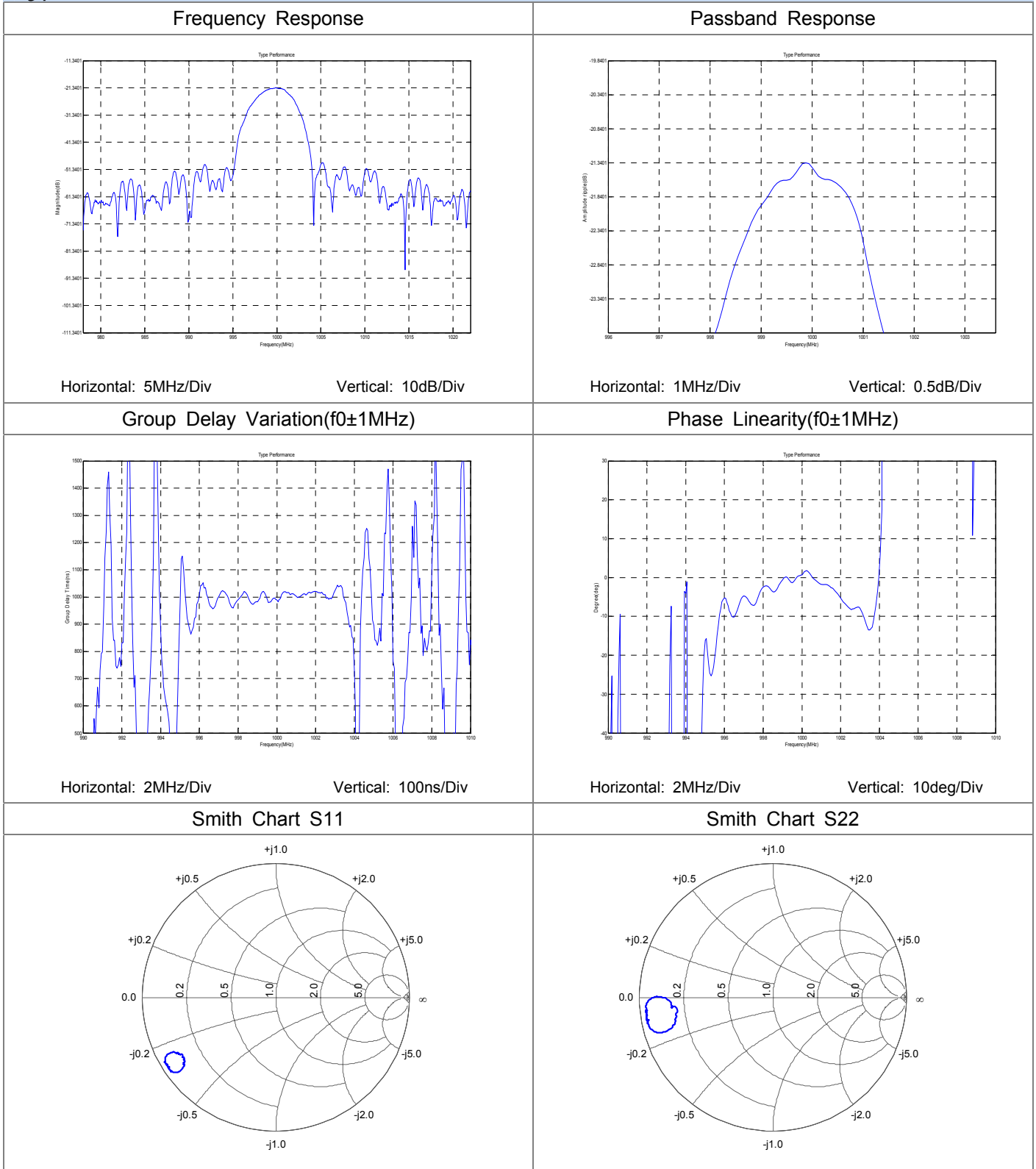


**SIPAT Co., Ltd.**  
( CETC No.26 Research Institute )  
#14 Nanping Huayuan Road,  
Chongqing, China, 400060

Part Number	LBS100001	
Rev. Date	2011-01-28	
Ver.	1.1	Page 2/3



Typical Performance



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

Part Number	LBS100001	
Rev. Date	2011-01-28	
Ver.	1.1	Page 3/3