

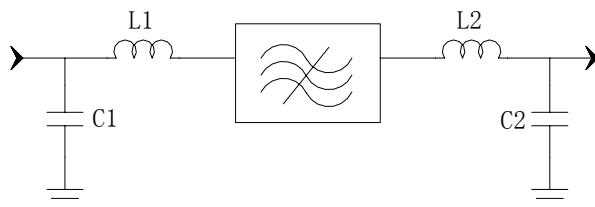
### Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	122.67	122.75	122.83
Insertion Loss	dB	-	20	24
1 dB Bandwidth	MHz	2.49	2.5	-
3 dB Bandwidth	MHz	-	2.7	-
30 dB Bandwidth	MHz	-	3.29	3.3
40 dB Bandwidth	MHz	-	3.36	3.4
50 dB Bandwidth	MHz	-	3.58	3.9
Passband Variation	dB	-	0.6	0.9
Absolute Delay	usec	-	3.77	-
Group Delay Variation( $f_0 \pm 1.2\text{MHz}$ )	nsec	-	180	300
Ultimate Rejection	dB	42	46	-
Material Temperature coefficient	KHz/°C	0.122		
Ambient Temperature	°C	25		
Package Size	DIP2712 (27.0x12.8x4.7mm3)			

#### Notes:

1. All specifications are based on the test circuit shown
2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over 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

### Matching Configuration



**L1=L2=100nH**  
**C1=56pF C2=47pF**  
**Source/Load Impedance=50 ohm**

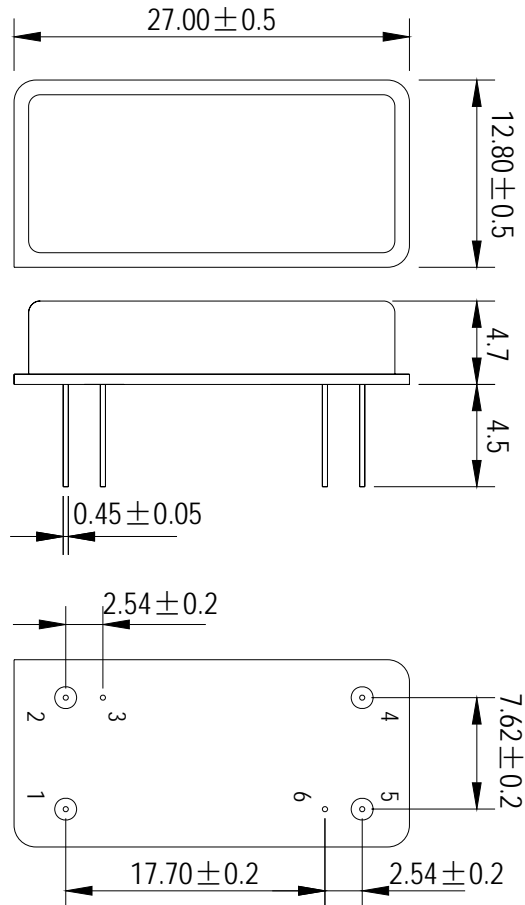
Notes - Component values may change depending on board layout.



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

Part Number	LBS12202		
Rev. Date	2005-12-26		
Rev.	1.0	Page 1/3	

*Package Dimension*



**Input:1**  
**Output:5**

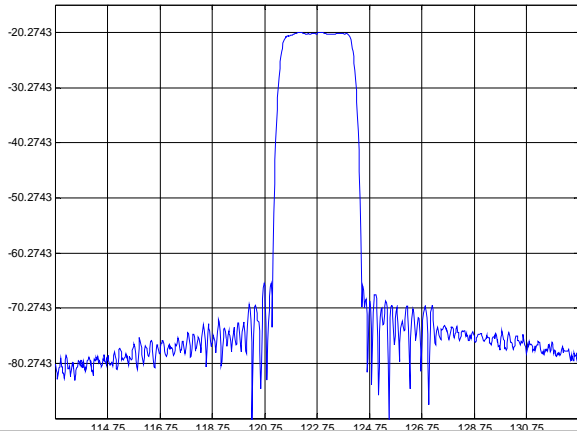


**SIPAT Co., Ltd.**  
( CETC No. 26 Research Institute )  
Nanping Huayuan Road No. 14  
Chongqing, China, 400060

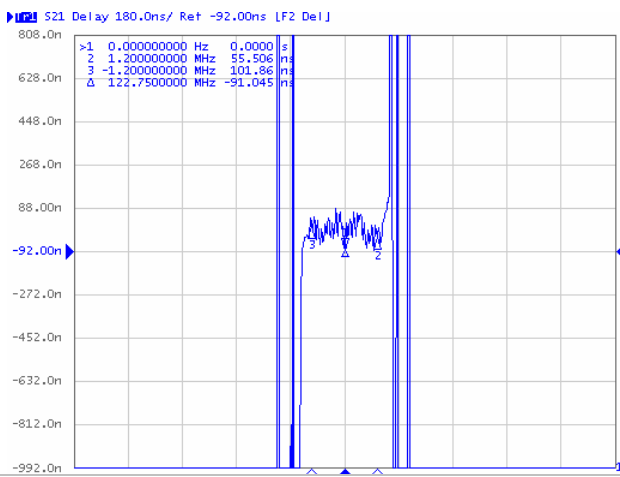
Part Number	LBS12202	
Rev. Date	2005-12-26	
Rev.	1.0	Page 2/3

Typical Performance

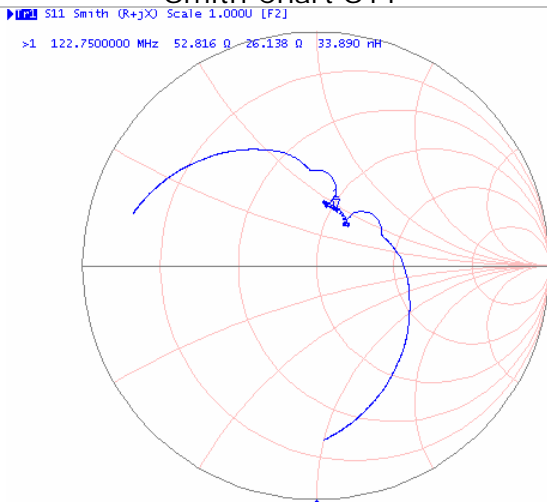
Frequency Respond



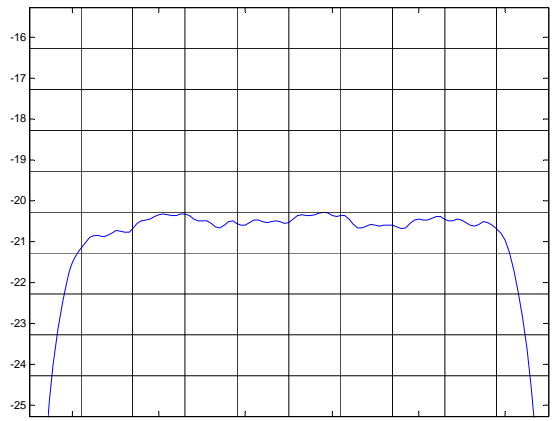
Group Delay Variation( $f_0 \pm 1.2$ MHz)



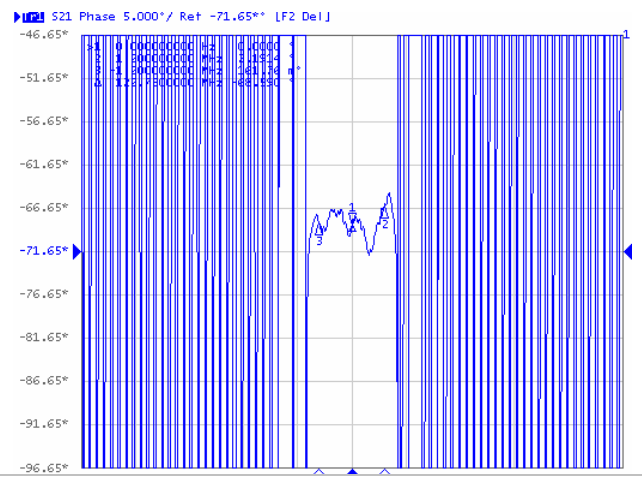
Smith Chart S11



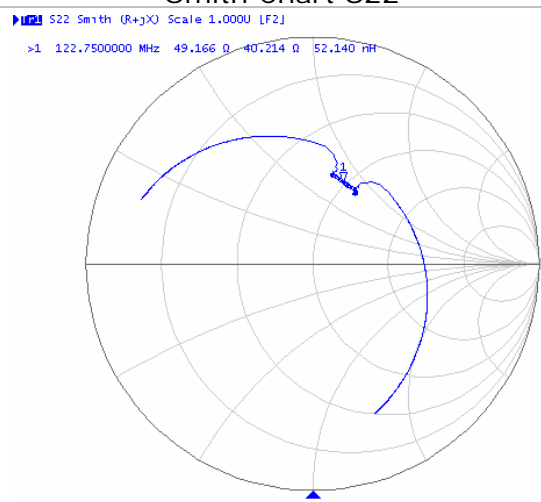
Passband Respond



Phase Linearity( $f_0 \pm 1.2$ MHz)



Smith Chart S22



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

Part Number	LBS12202	
Rev. Date	2005-12-26	
Rev.	1.0	Page 3/3