



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
<i>Center Frequency</i>	MHz	172.3	172.4	172.5
<i>Insertion Loss</i>	dB	-	23.9	27
<i>3dB Bandwidth</i>	MHz	3.2	3.30	-
<i>30dB Bandwidth</i>	MHz	-	3.93	4.0
<i>45dB Bandwidth</i>	MHz	-	4.12	4.4
<i>Ultimate Rejection (f0±6.6)</i>	dB	50	53	-
<i>Ultimate Rejection (f0±8.15)</i>	dB	55	56	-
<i>Passband Variation</i>	dB	-	0.9	1.0
<i>Absolute delay</i>	us	-	3.48	-
<i>Material Temperature coefficient</i>	KHz/°C	-	0.17	-
<i>Substrate Material</i>	-	QZ		
<i>Ambient Temperature</i>	°C	25		
<i>Operating Temperature Range</i>	°C	-25	-	+85
<i>Storage Temperature Range</i>	°C	-45	-	+105
<i>Input Power</i>	dBm	-	-	10
<i>ESD Class</i>	-	1C		
<i>Package Size</i>	DIP3512 (35.0x12.8x4.7)			

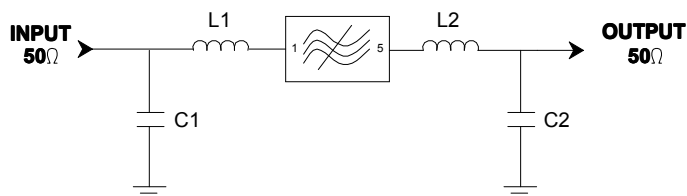
Notes:

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.

	SIPAT Co., Ltd. (CETC No.26 Research Institute) #14 Nanping Huayuan Road, Chongqing, China, 400060	Part Number	LBS17206	
		Rev. Date	2013-12-23	
		Ver.	1.0	Page 1/3

Matching Configuration

手动测试座

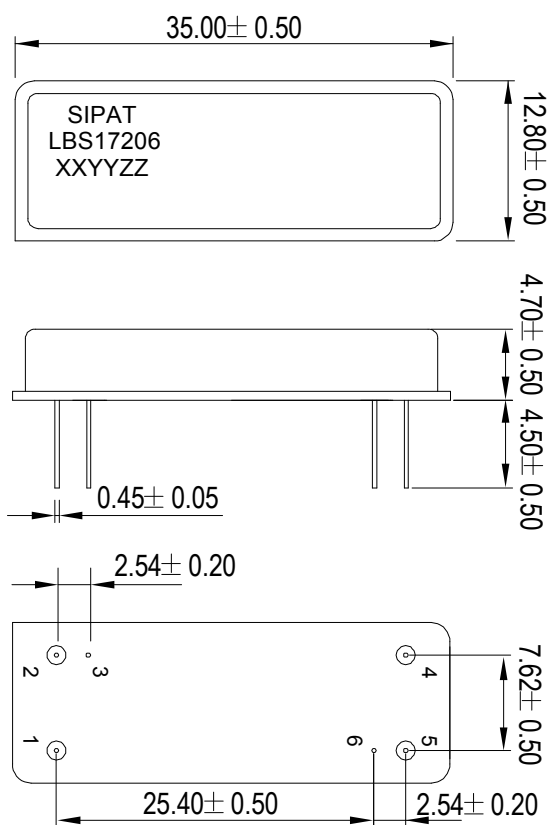


L1=68nH L2=56nH
C1=18pF C2=18pF

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) LBS17206: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: DIP3512

Unit: mm



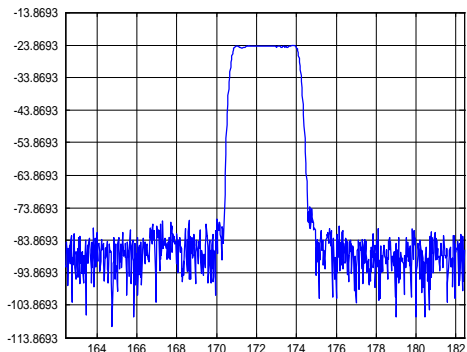
SIPAT Co., Ltd.
(CETC No.26 Research Institute)
#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number	LBS17206	
Rev. Date	2013-12-23	
Ver.	1.0	Page 2/3



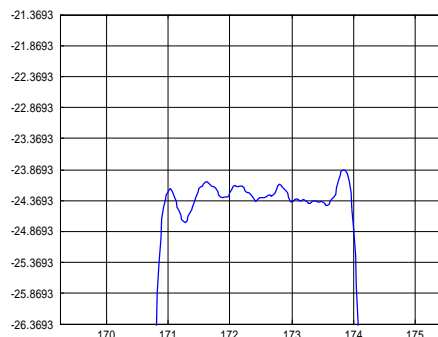
Typical Performance

Frequency Response



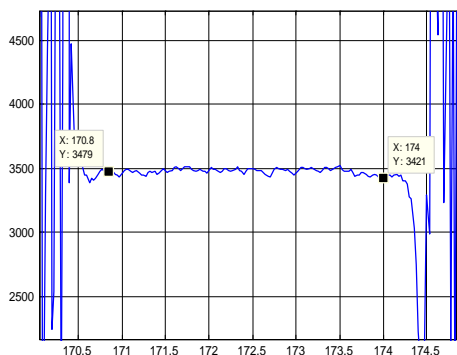
Horizontal: 2MHz/Div Vertical: 10dB/Div

Passband Response



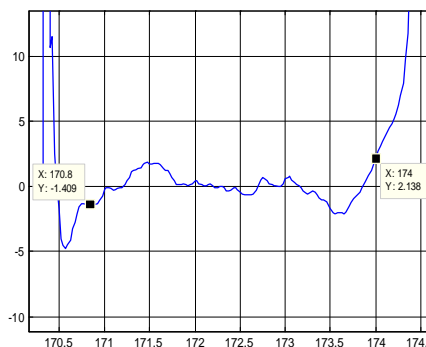
Horizontal: 1MHz/Div Vertical: 0.5dB/Div

Group Delay Variation



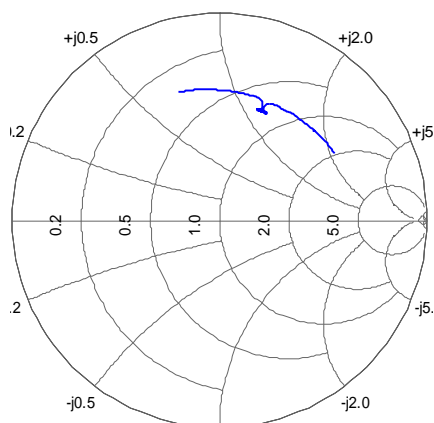
Horizontal: 0.5MHz/Div Vertical: 500ns/Div

Phase Linearity

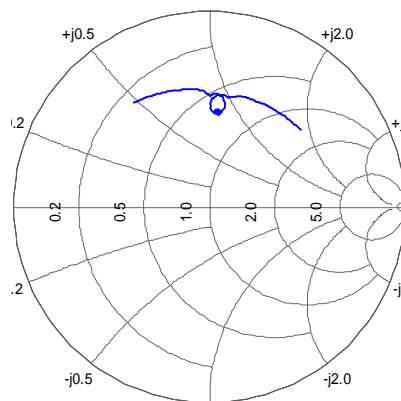


Horizontal: 0.5MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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

Part Number

LBS17206

Rev. Date

2013-12-23

Ver.

1.0

Page 3/3