



Features

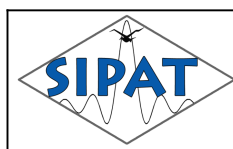
- ✧ For IF SAW filter
- ✧ High attenuation
- ✧ Single-ended operation
- ✧ Dual In-line Package
- ✧ RoHS compliant (2002/95/EC), Pb-free

Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	106.4	106.5	106.6
Insertion Loss	dB	-	22.3	26
1.5dB Bandwidth	MHz	2.45	2.53	-
3dB Bandwidth	MHz	2.5	2.65	-
30 dB Bandwidth	MHz	-	3.32	3.35
40dB Bandwidth	MHz	-	3.44	3.6
50dB Bandwidth	MHz	-	3.56	4.2
Passband Variation	dB	-	0.4	1.0
Absolute Delay	usec	-	3.51	4.0
Ultimate Rejection(f0±10MHz)	dB	55	58	-
Material Temperature coefficient	KHz/°C	0.11		
Substrate Material	-	ST-QZ		
Ambient Temperature	°C	25		
Operating Temperature Range	°C	-25	-	+85
Storage Temperature Range	°C	-45	-	+105
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1C		
Package Size	DIP3512 (35*12.6*5.2mm3)			

Notes:

- All specifications are based on the test circuit shown;
- In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature;
- Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances;
- This is the optimum impedance in order to achieve the performance show.

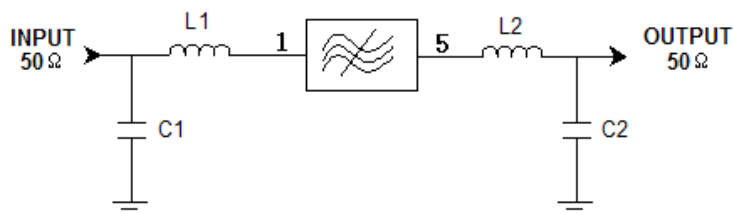


SIPAT Co., Ltd.
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#14 Nanping Huayuan Road,
Chongqing, China, 400060

Part Number	LBS10712		
Rev. Date	2012-01-10		
Ver.	1.0	Page 1/3	

Matching Configuration

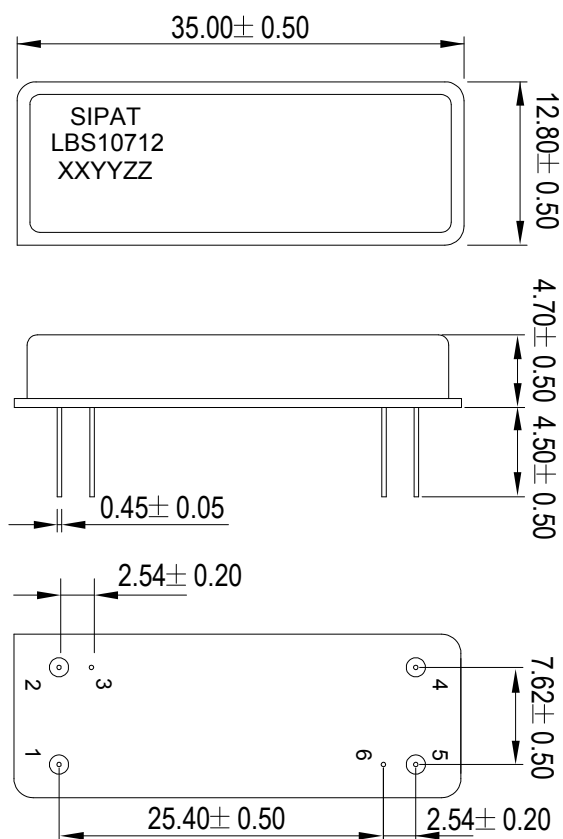
手动测试座



L1=150nH L2=100nH
C1=36pF C2=56pF
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) LBS10712: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: DIP3512

Unit: mm



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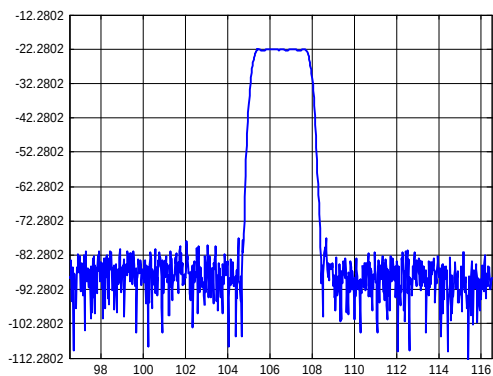
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Page 2/3



Typical Performance

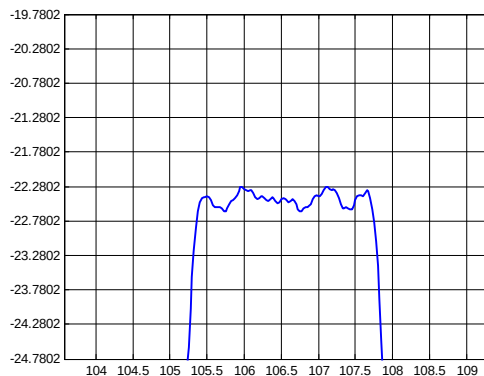
Frequency Response



Horizontal: 2MHz/Div

Vertical: 10dB/Div

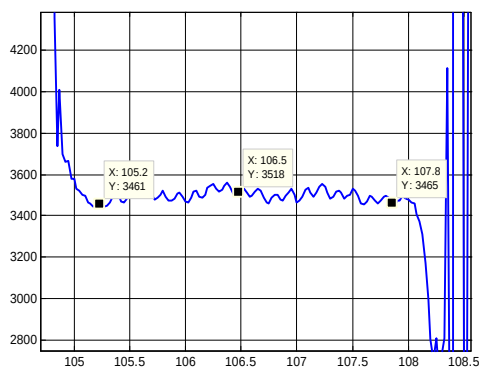
Passband Response



Horizontal: 0.5MHz/Div

Vertical: 0.5dB/Div

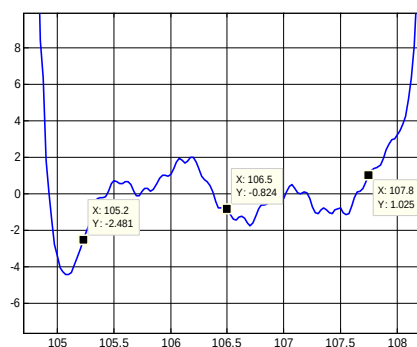
Group Delay Variation



Horizontal: 0.5MHz/Div

Vertical: 200ns/Div

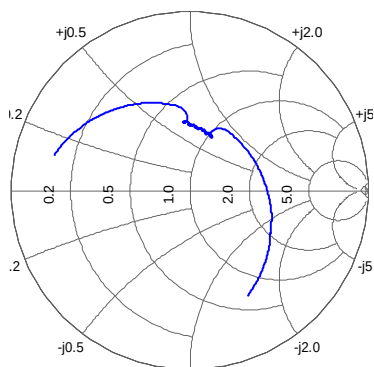
Phase Linearity



Horizontal: 0.5MHz/Div

Vertical: 2deg/Div

Smith Chart S11



Smith Chart S22

