



Features

- ✧ For IF SAW filter
- ✧ High attenuation
- ✧ Single-ended operation
- ✧ Dual In-line Package
- ✧ No matching required for operation at 50Ω
- ✧ RoHS compliant (2002/95/EC), Pb-free

Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	121.6	121.7	121.8
Insertion Loss	dB	-	22.4	26
1.5 dB Bandwidth	MHz	-	0.76	-
3 dB Bandwidth	MHz	0.8	0.87	-
30 dB Bandwidth	MHz	-	1.52	1.65
40 dB Bandwidth	MHz	-	1.61	-
45 dB Bandwidth	MHz	-	1.65	-
50 dB Bandwidth	MHz	-	1.69	-
55 dB Bandwidth	MHz	-	2	-
Passband Variation	dB	-	0.4	1.5
Absolute Delay	usec	-	3.2	-
Ultimate Rejection($f_0 \pm 10\text{MHz}$)	dB	55	60	-
Material Temperature coefficient	KHz/°C	0.12		
Substrate Material	-	Qz		
Ambient Temperature	°C	25		
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1C		
Package Size	DIP3512 (35.0x12.8x4.7mm3)			

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

Part Number	LBS12206		
Rev. Date	2011-06-07		
Ver.	1.0	Page 1/3	

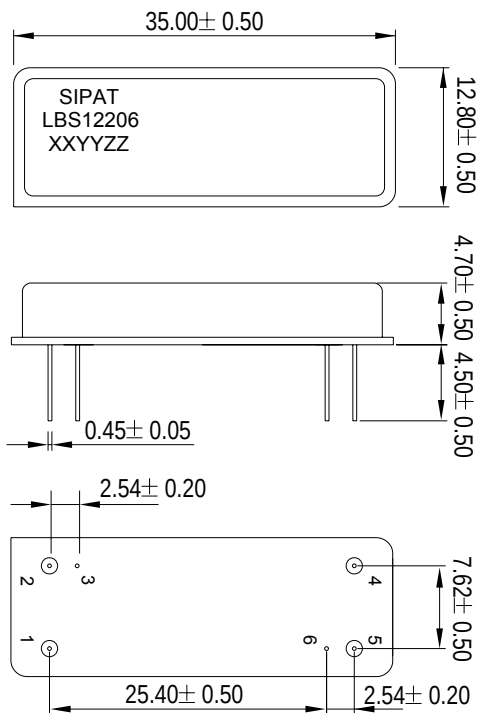
Matching Configuration



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) LBS12206: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: DIP3512

Unit: mm



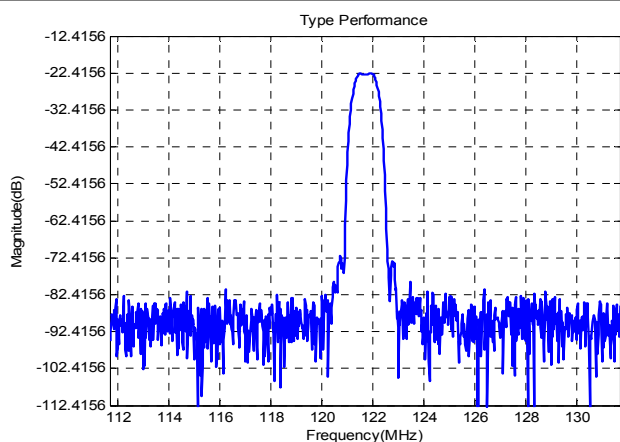
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Typical Performance

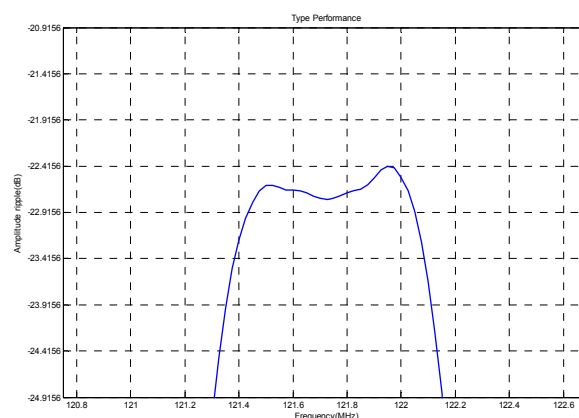
Frequency Response



Horizontal: 2MHz/Div

Vertical: 10dB/Div

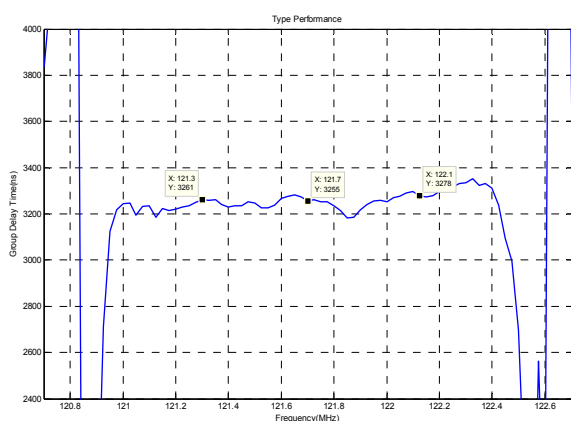
Passband Response



Horizontal: 0.2MHz/Div

Vertical: 0.5dB/Div

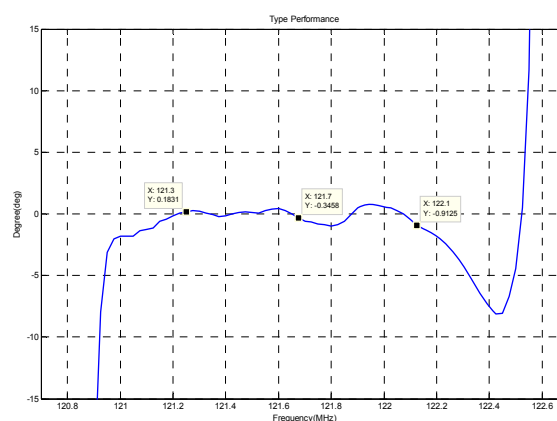
Group Delay Variation($f_0 \pm 0.4$ MHz)



Horizontal: 0.2MHz/Div

Vertical: 200ns/Div

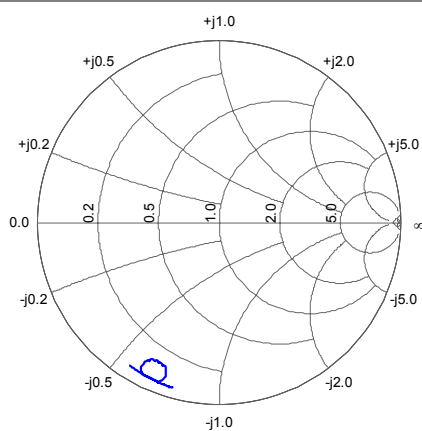
Phase Linearity($f_0 \pm 0.4$ MHz)



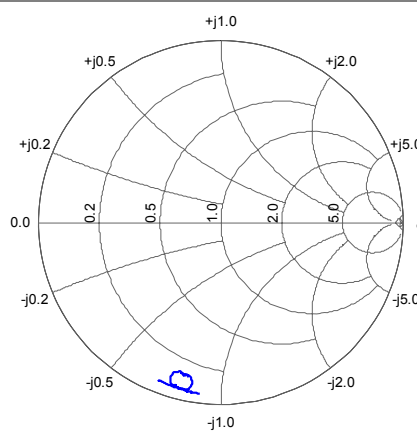
Horizontal: 0.2MHz/Div

Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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