



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	72	72.1	72.2
Insertion Loss	dB	-	23.8	26
1 dB Bandwidth	MHz	1.15	1.27	-
3 dB Bandwidth	MHz	1.4	1.45	-
30 dB Bandwidth	MHz	-	2	2.05
40 dB Bandwidth	MHz	-	2.08	-
45 dB Bandwidth	MHz	-	2.1	-
50 dB Bandwidth	MHz	-	2.12	-
Passband Variation	dB	-	0.5	1
Absolute Delay	usec	-	3.9	4
Ultimate Rejection($f_0\pm 10\text{MHz}$)	dB	55	58	-
Material Temperature coefficient	KHz/°C	0.07		
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.
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Part Number	LBS07204		
Rev. Date	2011-03-09		
Ver.	1.0	Page 1/3	

Matching Configuration

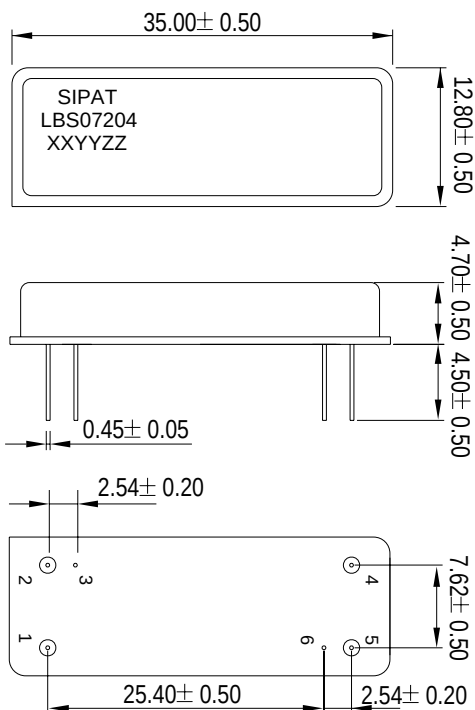


L1=220nH L2=180nH

Source/Load Impedance=50 ohm

Notes - Component values may change depending
on board layout.

Package Dimension



Pad Configuration:

Input 1
Output 5
Ground All Others

Marking Configuration:

- 1) SIPAT: Manufacturer Name
- 2) LBS07204: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: DIP3512

Unit: mm



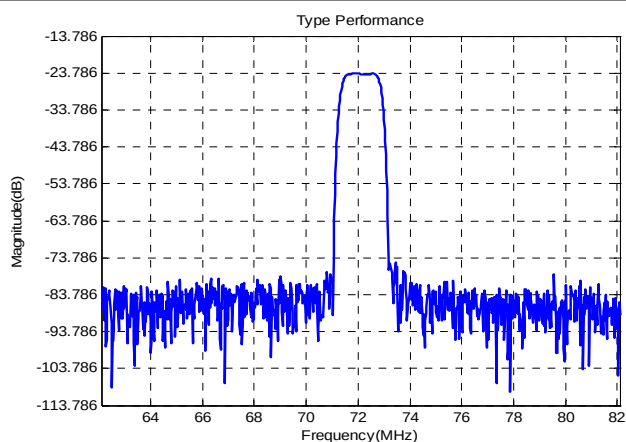
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Typical Performance

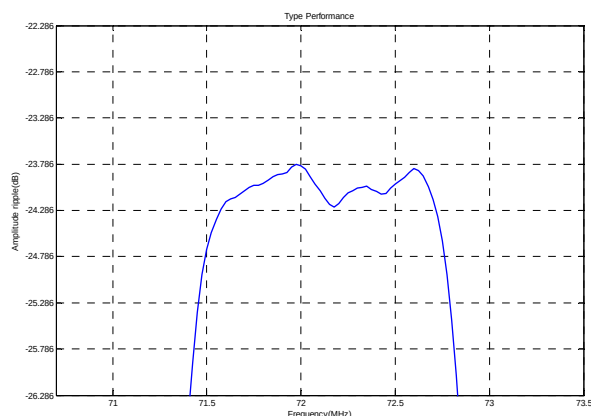
Frequency Response



Horizontal: 2MHz/Div

Vertical: 10dB/Div

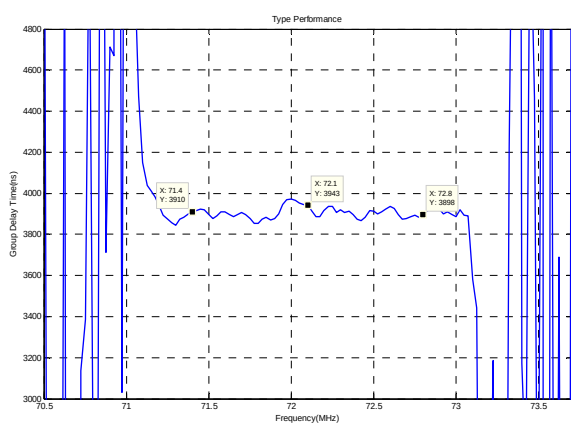
Passband Response



Horizontal: 0.5MHz/Div

Vertical: 0.5dB/Div

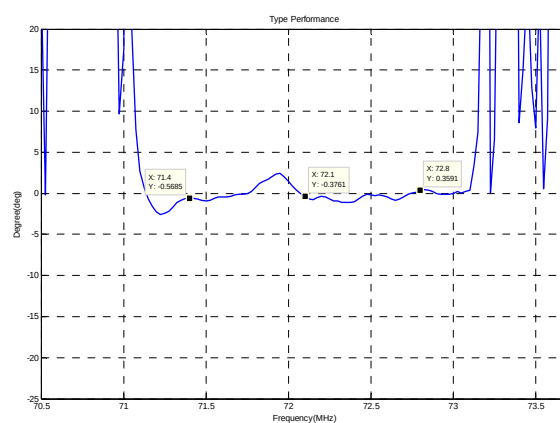
Group Delay Variation($f_0 \pm 0.7$ MHz)



Horizontal: 0.5MHz/Div

Vertical: 200ns/Div

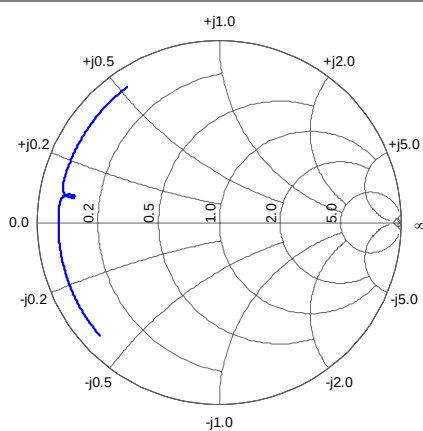
Phase Linearity($f_0 \pm 0.7$ MHz)



Horizontal: 0.5MHz/Div

Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22

