



Features

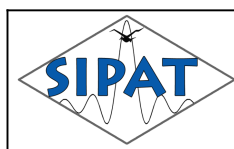
- ✧ For IF SAW filter
- ✧ Single-ended operation
- ✧ Ceramic Surface Mount Package
- ✧ Small size
- ✧ RoHS compliant (2002/95/EC), Pb-free

Specifications

Parameter		Unit	Minimum	Typical	Maximum
Center Frequency		MHz	132.2	132.3	132.4
Insertion Loss		dB		27.4	30
3dB Bandwidth		MHz	4.5	4.56	
Selectivity	$F0 \pm 2.7\text{MHz}$	dBc	35	38	
	$F0 \pm 2.9\text{MHz}$	dBc	45	50	
	$F0 \pm 3.3\text{MHz}$	dBc	48	52	
	$F0 \pm 7.3\text{MHz}$	dBc	50	55	
Passband Variation		dB		0.5	1.5
Ultimate Rejection ($F0 \pm 8\text{MHz}$)		dB	50	54	
Absolute Delay		usec		3.14	4.0
Material Temperature coefficient		KHz/°C		0.13	
Substrate Material		-		QZ	
Ambient Temperature		°C		25	
Operating Temperature Range		°C		25	
Storage Temperature Range		°C	-45	-	+105
Input Power		dBm	-	-	10
ESD Class		-		1C	
Package Size			DIP3512		

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.

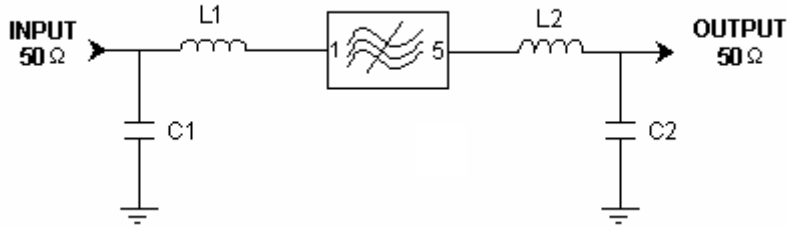


SIPAT Co., Ltd.
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#14 Nanping Huayuan Road,
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Part Number	LBS13302		
Rev. Date	2012-12-17		
Ver.	1.0	Page 1/3	

Matching Configuration

手动测试座



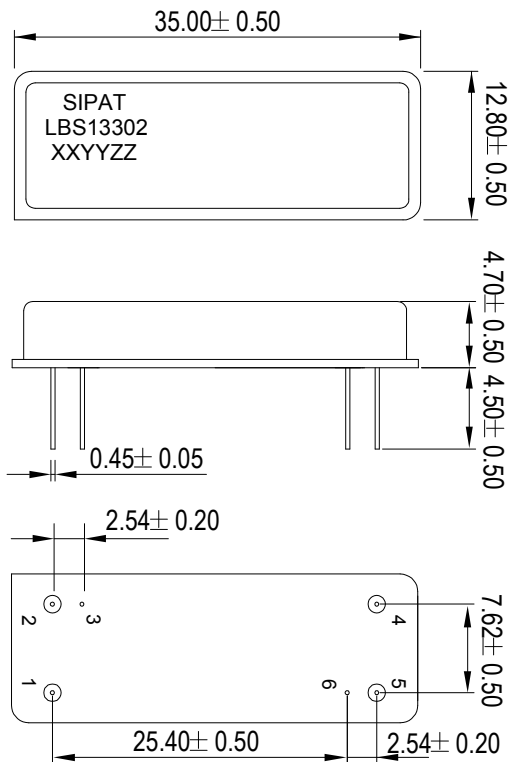
L1=120nH L2=68nH

C1=22pf C2=47pf

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) ∙: Pad Number 1 Index
- 2) SIPAT: Manufacturer Name
- 3) LBS13302: Part Number
- 4) XXYY: Date(Year/month)
- 5) ZZ: Identified Code

Package: DIP3512

Unit: mm



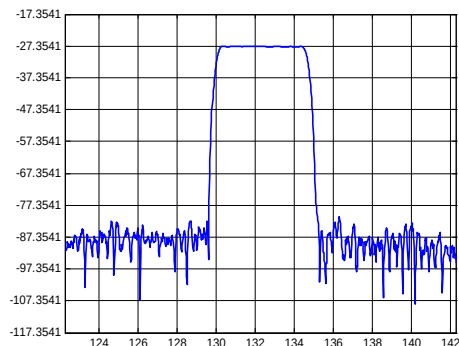
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Typical Performance

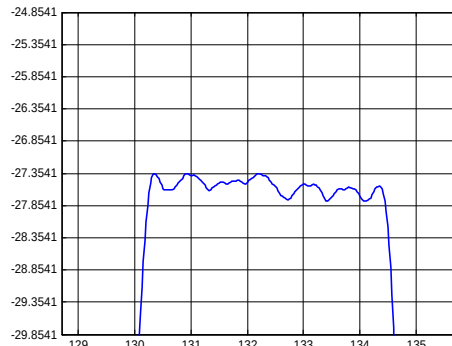
Frequency Response



Horizontal: 2MHz/Div

Vertical: 10dB/Div

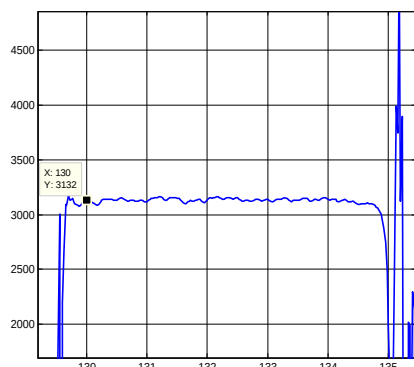
Passband Response



Horizontal: 1MHz/Div

Vertical: 0.5dB/Div

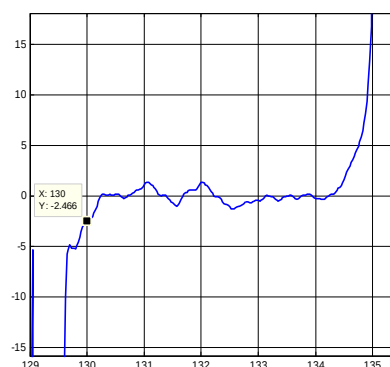
Group Delay Variation



Horizontal: 1MHz/Div

Vertical: 500ns/Div

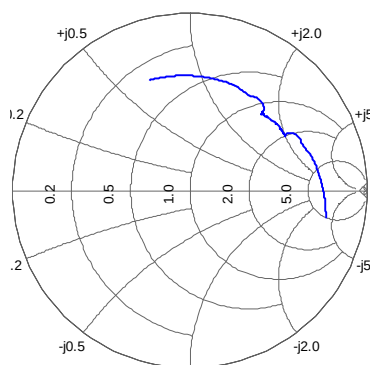
Phase Linearity



Horizontal: 1MHz/Div

Vertical: 5deg/Div

S11



S22

