



### 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	141.65	141.8	141.95	
Insertion Loss	dB	-	21.4	27	
3 dB Bandwidth	MHz	0.55	0.67	-	
40 dB Bandwidth	MHz	-	1.38	-	
Passband Variation	dB	-	0.3	1	
Absolute Delay	usec	-	3.15	4	
Ultimate Rejection	$f_0 \pm 0.7\text{MHz}$	dB	35	40	-
	$f_0 \pm 0.9\text{MHz}$	dB	45	57	-
	$f_0 \pm 1.3\text{MHz}$	dB	50	60	-
	$f_0 \pm 5.3\text{MHz}$	dB	55	70	-
Material Temperature coefficient	KHz/°C	0.14			
Substrate Material	-	Qz			
Ambient Temperature	°C	25			
Operating Temperature Range	°C	-40	-	+85	
Storage Temperature Range	°C	-45	-	+105	
DC Voltage	V	0			
Input Power	dBm	-	-	10	
ESD Class	-	1A			
Package Size	DIP3512 (35.0x12.8x4.7mm3)				

#### 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.

	<b>SIPAT Co., Ltd.</b> ( CETC No.26 Research Institute ) #14 Nanping Huayuan Road, Chongqing, China, 400060	Part Number	LBS14201	
		Rev. Date	2008-10-07	
		Ver.	1.0	Page 1/3

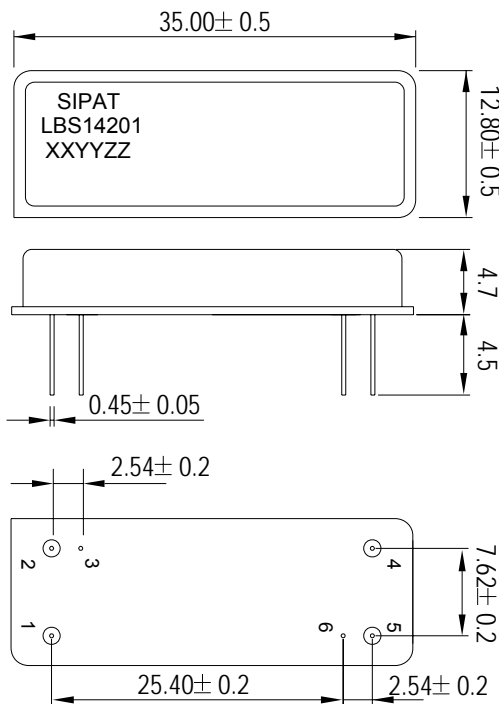
### Matching Configuration



Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

### Package Dimension



#### Pad Configuration:

Input 1  
 Output 5  
 Ground All Others

#### Marking Configuration:

- 1) SIPAT: Manufacturer Name
- 2) LBS14201: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: DIP3512

Unit: mm



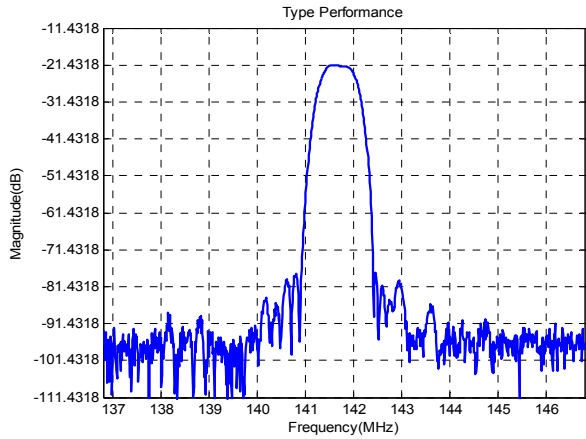
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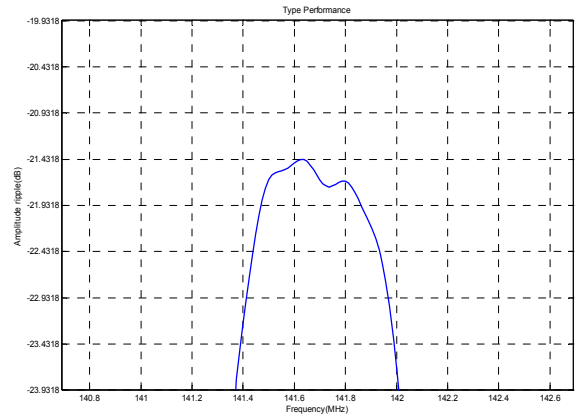
Typical Performance

Frequency Respond



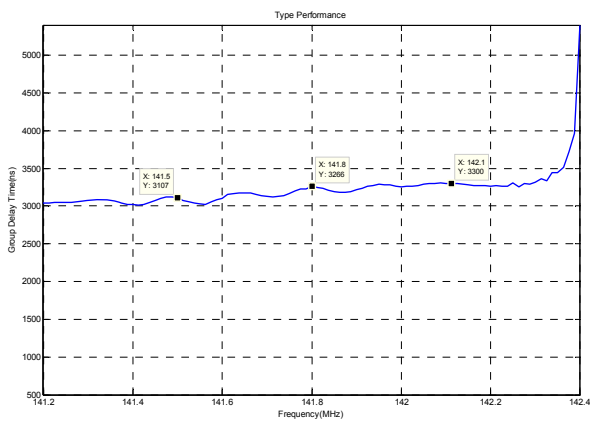
Horizontal: 1MHz/Div Vertical: 10dB/Div

Passband Respond



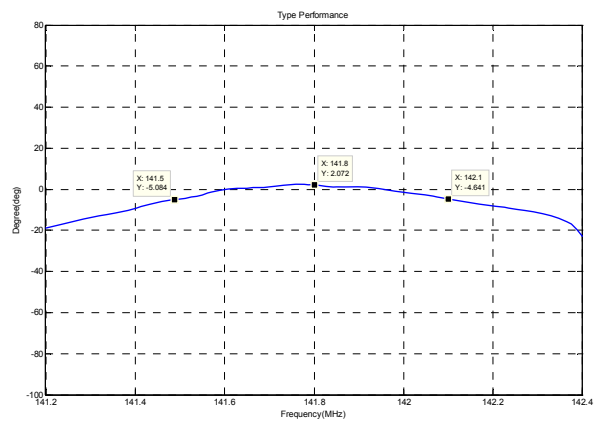
Horizontal: 0.2MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±0.3MHz)



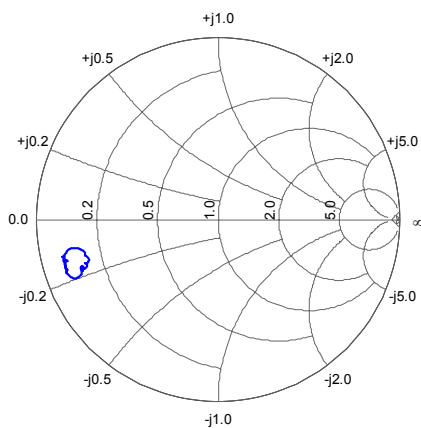
Horizontal: 0.2MHz/Div Vertical: 500ns/Div

Phase Linearity(f0±0.3MHz)

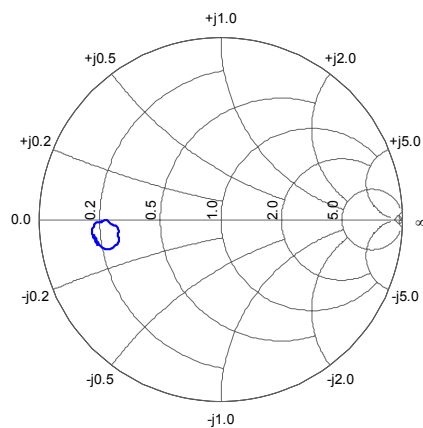


Horizontal: 0.2MHz/Div Vertical: 20deg/Div

Smith Chart S11



Smith Chart S22



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