



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
<i>Center Frequency</i>	MHz	329.75	330	330.25
<i>Insertion Loss</i>	dB	-	23.1	25
<i>1.5 dB Bandwidth</i>	MHz	4.7	5.10	-
<i>3dB Bandwidth</i>	MHz	5	5.37	-
<i>40 dB Bandwidth</i>	MHz	-	6.99	7.1
<i>Passband Variation</i>	dB	-	0.4	1.0
<i>Absolute Delay</i>	usec	-	1.78	-
<i>Ultimate Rejection</i>	dB	50	51	-
<i>Material Temperature coefficient</i>	KHz/°C	0.33		
<i>Substrate Material</i>	-	QZ		
<i>Ambient Temperature</i>	°C	25		
<i>Operating Temperature Range</i>	°C	-25	-	+85
<i>DC Voltage</i>	V	0		
<i>Input Power</i>	dBm	-	-	10
<i>ESD Class</i>	-	1C		
<i>Package Size</i>	DIP2212 (22.0x12.8x4.7)			

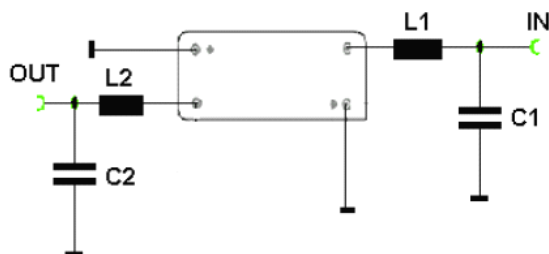
Notes:

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.

	SIPAT Co., Ltd. (CETC No.26 Research Institute) #14 Nanping Huayuan Road, Chongqing, China, 400060	Part Number	LBS33001	
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Matching Configuration

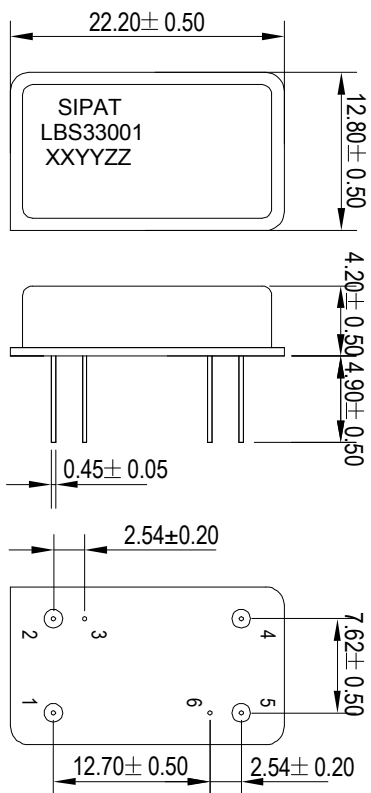
手动测试座



L1=15nH L2=10nH
C1=22pF C2=22pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input 1
Output 4
Ground 2,3,5,6

Marking Configuration:

- 1) SIPAT: Manufacturer Name
- 2) LBS33001: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: DIP2212

Unit: mm

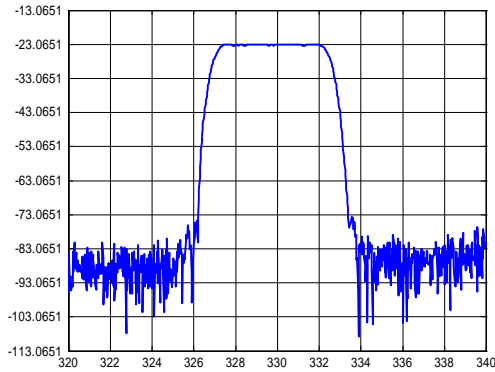


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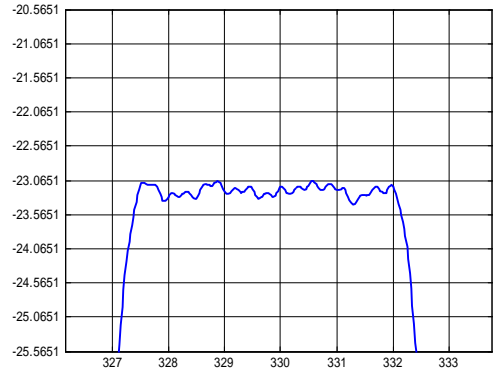
Typical Performance

Frequency Response



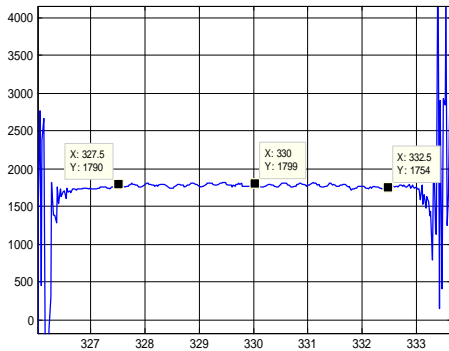
Horizontal: 2MHz/Div Vertical: 10dB/Div

Passband Response



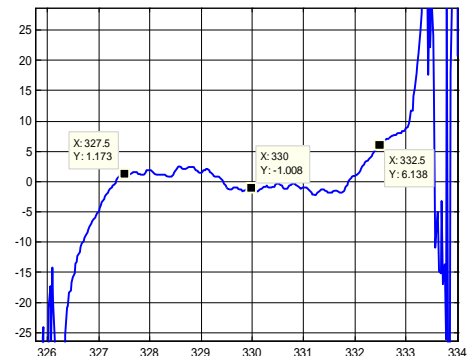
Horizontal: 1MHz/Div Vertical: 0.5dB/Div

Group Delay Variation



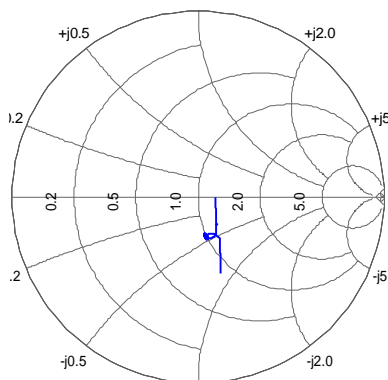
Horizontal: 1MHz/Div Vertical: 500ns/Div

Phase Linearity

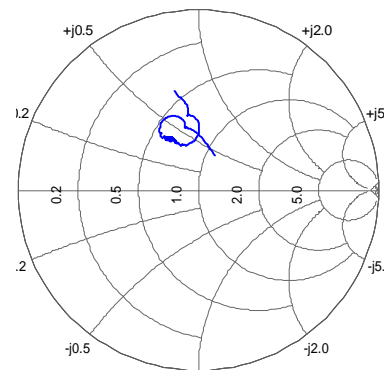


Horizontal: 1MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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