



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 (f0)</i>	MHz	172.25	172.4	172.55
<i>Insertion Loss</i>	dB	-	21.5	23
<i>3dB Bandwidth</i>	MHz	1.0	1.10	-
<i>40dB Bandwidth</i>	MHz	-	1.89	2.0
<i>Ultimate Rejection</i>	dB	50	51	-
<i>Passband Variation</i>	dB	-	0.5	1.0
<i>Absolute delay</i>	us	-	3.43	4.0
<i>Group Delay Variation(f0±0.5MHz)</i>	nsec	-	140	-
<i>Material Temperature coefficient</i>	KHz/°C	0.17		
<i>Substrate Material</i>	-	QZ		
<i>Ambient Temperature</i>	°C	25		
<i>Operating Temperature Range</i>	°C	-25	-	+85
<i>Storage Temperature Range</i>	°C	-45		105
<i>ESD Class</i>	-	1C		
<i>Package Size</i>	DIP2712			

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	LBS17205	
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Matching Configuration

手动测试座

INPUT
50Ω

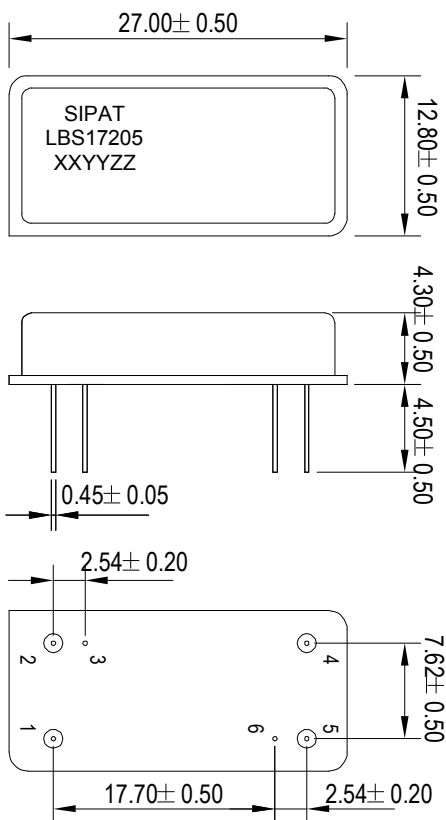


OUTPUT
50Ω

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) LBS17205: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: DIP2712

Unit: mm



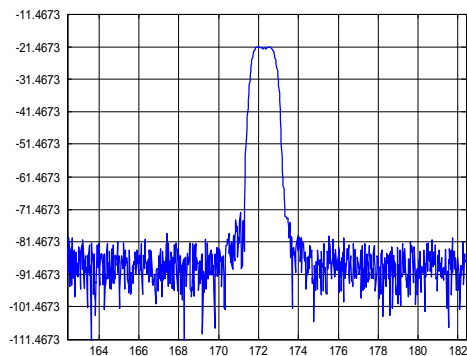
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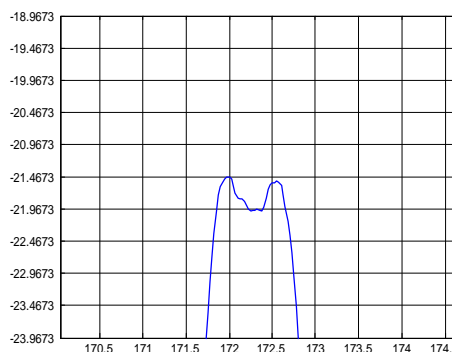
Typical Performance

Frequency Response



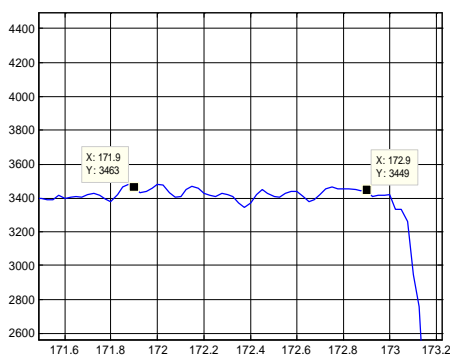
Horizontal: 2MHz/Div Vertical: 10dB/Div

Passband Response



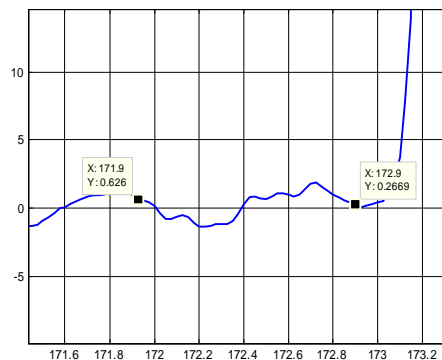
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Group Delay Variation



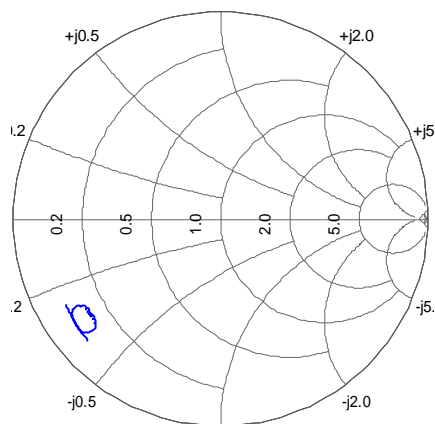
Horizontal: 0.2MHz/Div Vertical: 200ns/Div

Phase Linearity

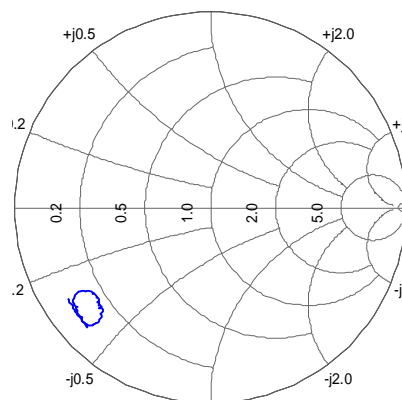


Horizontal: 0.2MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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China Electronics Technology Group Corporation
No.26 Research Institute

172.4MHz SAW Filter
1MHz Bandwidth

SIPAT Co., Ltd.
www.sipatsaw.com

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