



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	-	192	-	
<i>Insertion Loss</i>	dB	-	10.7	12	
<i>1 dB Bandwidth</i>	MHz	37	38.47	-	
<i>Passband Variation (f0±17.5MHz)</i>	dB		0.7	1	
<i>Ultimate Rejection</i>	<i>10-162.5 MHz</i>	dB	50	51	-
	<i>162.5-168.5 MHz</i>	dB	13	40	
	<i>2155-221.5 MHz</i>	dB	13	30	
	<i>221.5-232 MHz</i>	dB	42	45	
	<i>232-240 MHz</i>	dB	48	53	
	<i>240-1000MHz</i>	dB	50	52	
<i>Passband group delay ripple (f0±17.5MHz)</i>	dB		55		
<i>Material Temperature coefficient</i>	KHz/° C		-18.05		
<i>Substrate Material</i>	-		YZ-LN		
<i>Ambient Temperature</i>	° C		25		
<i>Operating Temperature Range</i>	° C	-20		+85	
<i>Storage Temperature Range</i>	° C	-45		+105	
<i>Input Power</i>	dBm	-	-	10	
<i>ESD Class</i>	-		1A		
<i>Package Size</i>			SMD7.0*5.0		

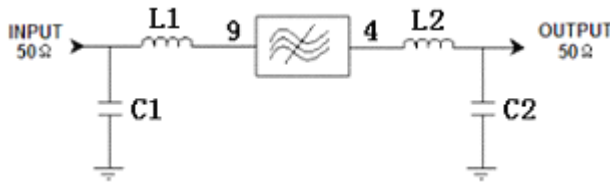
Notes:

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	LBN19209	
		Rev. Date	2012-03-23	
		Ver.	1.0	Page 1/3

Matching Configuration

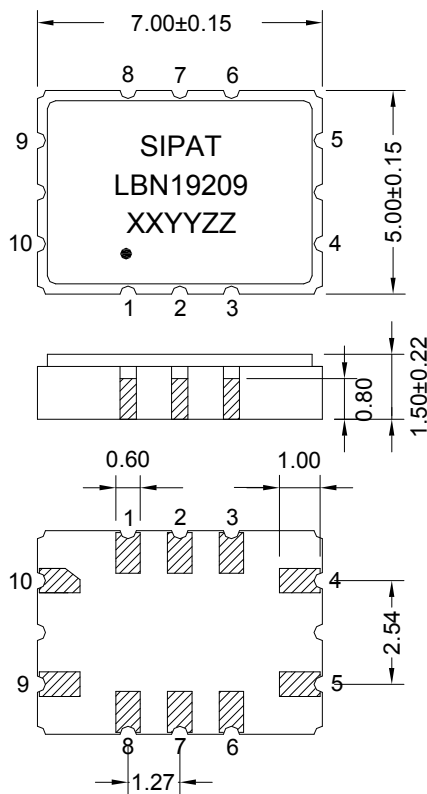
手动测试座



L1=27+15nH L2=56nH
C1=27pF C2=15pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

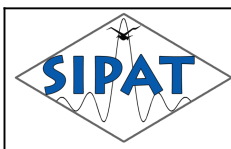
Input 9
Output 4
Ground All Others

Marking Configuration:

- 1) SIPAT: Manufacturer Name
- 2) LBN19209: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: SMD7.0*5.0

Unit: mm

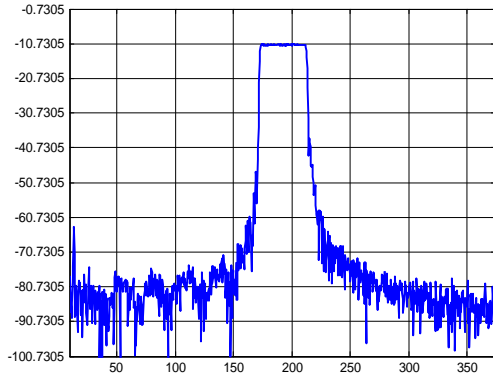


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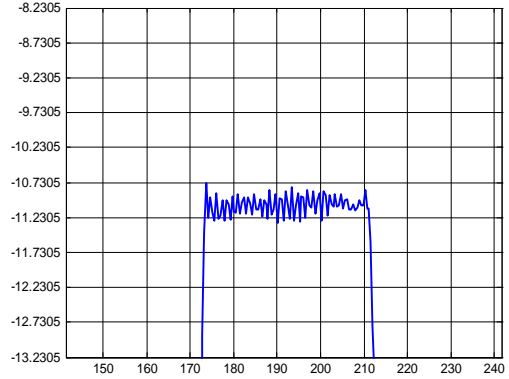
Typical Performance

Frequency Response



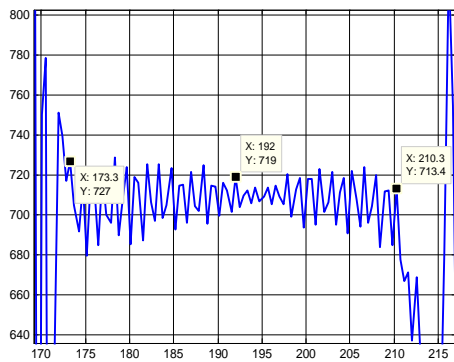
Horizontal: 50MHz/Div Vertical: 10dB/Div

Passband Response



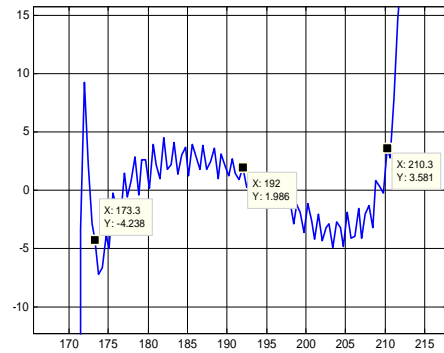
Horizontal: 10MHz/Div Vertical: 0.5dB/Div

Group Delay Variation



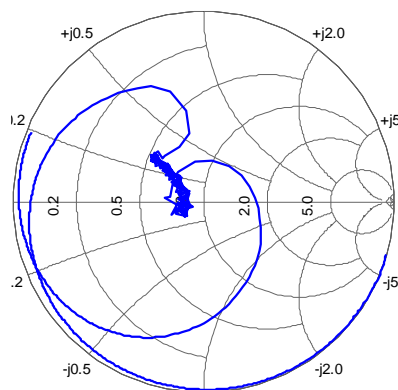
Horizontal: 5MHz/Div Vertical: 20ns/Div

Phase Linearity

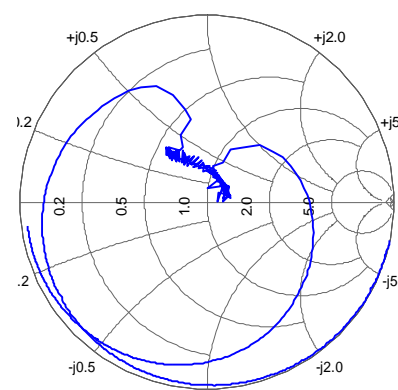


Horizontal: 5MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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