



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	-	8.6	10.5
<i>1 dB Bandwidth</i>	MHz	25	27.34	-
<i>Passband Variation (f0±12.5MHz)</i>	dB		0.7	1
<i>Ultimate Rejection</i>	<i>10-150MHz</i>	dB	50	-
	<i>150-168MHz</i>	dB	40	
	<i>168-173MHz</i>	dB	22	40
	<i>211-216MHz</i>	dB	22	36
	<i>216-226MHz</i>	dB	40	41
	<i>226-350MHz</i>	dB	50	52
<i>Passband group delay ripple (f0±12.5MHz)</i>	dB		52	
<i>Phase ripple (f0±12.5MHz)</i>			13	
<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	-40		+95
<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		

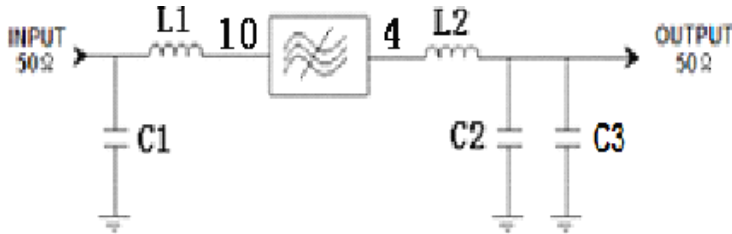
Notes:

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. <i>(CETC No.26 Research Institute)</i> #14 Nanping Huayuan Road, Chongqing, China, 400060	Part Number	LBN19208	
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		Ver.	1.0	Page

Matching Configuration

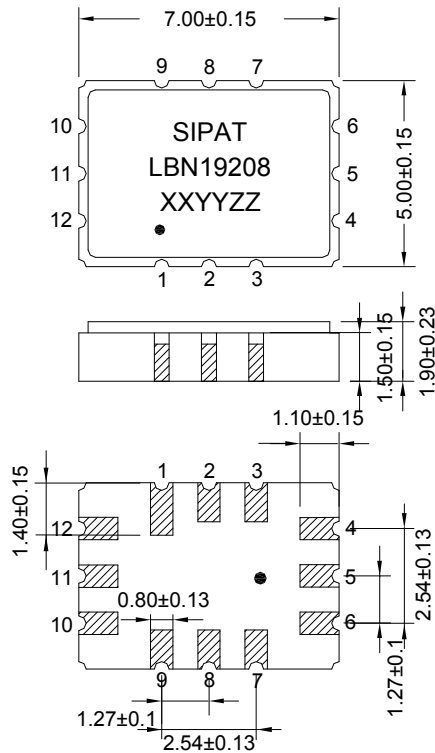
手动测试座



L1=47nH L2=47+10nH
C1=15pF C2=15pF C3=6.8pF
Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input 10
Output 4
Ground All Others

Marking Configuration:

- 1) SIPAT: Manufacturer Name
- 2) LBN19208: Part Number
- 3) XXYY: Date(Year/month)
- 4) ZZ: Identified Code

Package: SMD7.0*5.0

Unit: mm

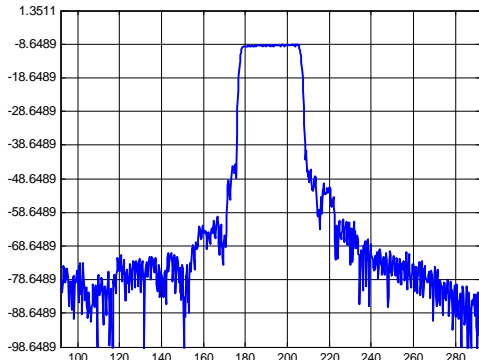


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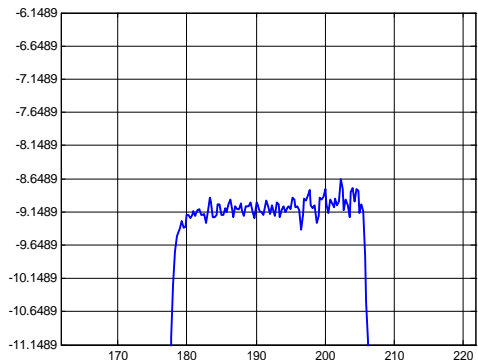
Typical Performance

Frequency Response



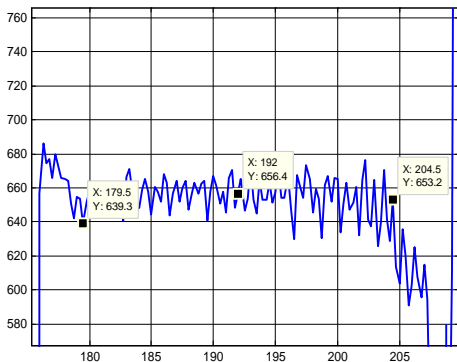
Horizontal: 20MHz/Div Vertical: 10dB/Div

Passband Response



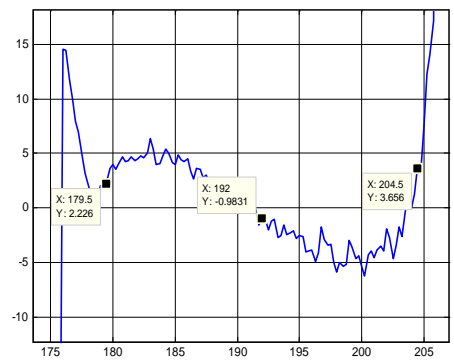
Horizontal: 10MHz/Div Vertical: 0.5dB/Div

Group Delay Variation



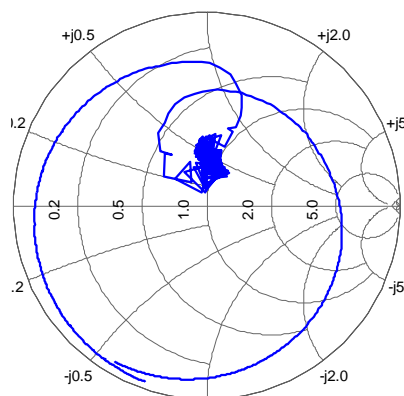
Horizontal: 5MHz/Div Vertical: 20ns/Div

Phase Linearity

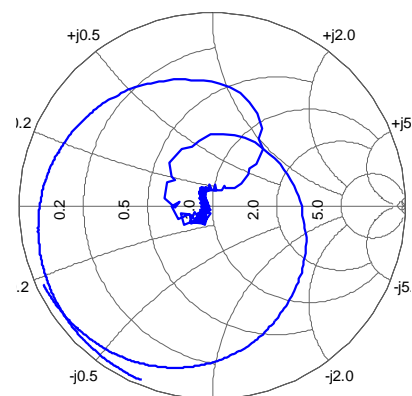


Horizontal: 5MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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