



Features

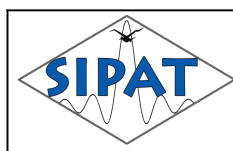
- ✧ For RF SAW filter
- ✧ Single-ended operation
- ✧ Ceramic Surface Mount Package
- ✧ Small size
- ✧ No matching required for operation at 50Ω
- ✧ RoHS compliant (2002/95/EC), Pb-free

Specifications

Parameter		Unit	Minimum	Typical	Maximum
Center Frequency		MHz	-	579	-
Insertion Loss(566~592MHz)		dB	-	1.6	3.5
Passband Variation(566~592MHz)		dB	-	0.8	1
Group delay variation(566~592MHz)		ns	-	35	100
Input/output VSWR(566~592MHz)		-	-	1.33/1.33	2
Attenuation	DC ~ 530MHz	dB	30	35	-
	645-700 MHz	dB	30	35	-
	700 ~ 1500 MHz	dB	20	30	-
	1500 ~ 2500MHz	dB	10	11	-
Material Temperature coefficient		KHz/°C	-39.37		
Substrate Material		-	41LN		
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		SMD3.8*3.8			

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.

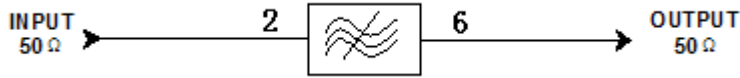


SIPAT Co., Ltd.
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Part Number	LBN57901		
Rev. Date	2012-01-06		
Ver.	1.0	Page 1/3	

Matching Configuration

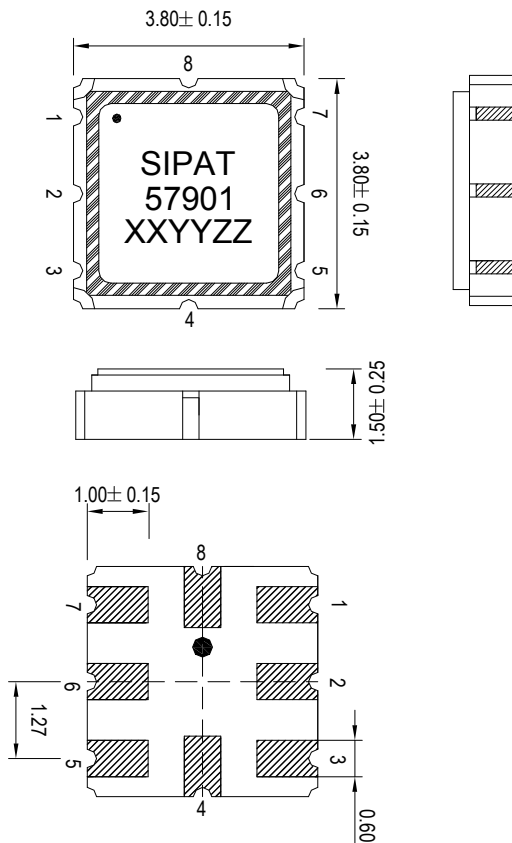
手动测试座



Source/Load Impedance=50 ohm

Notes - Component values may change depending
on board layout.

Package Dimension



Pad Configuration:

Input: 2
Output: 6
Ground: All Others

Marking Configuration:

- 1) •: Pad Number 1 Index
- 2) SIPAT: Manufacturer Name
- 3) 57901: Part Number
- 4) XXYY: Date(Year/month)
- 5) ZZ: Identified Code

Package: SMD3.8*3.8

Unit: mm



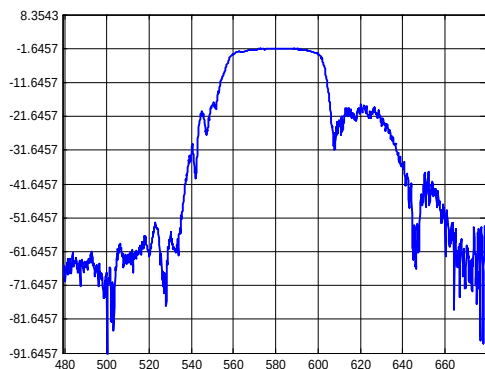
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Typical Performance

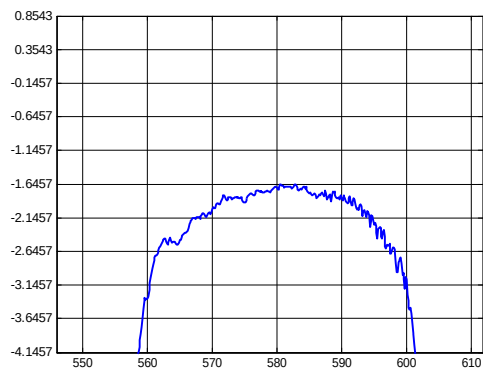
Frequency Respond



Horizontal: 20MHz/Div

Vertical: 10dB/Div

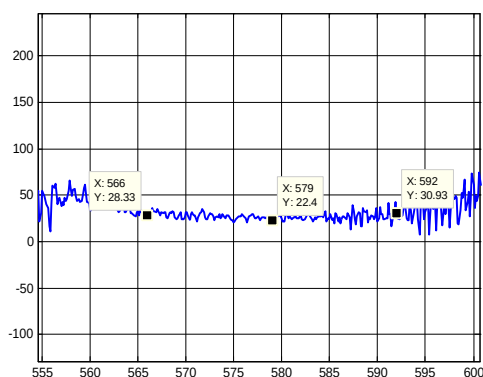
Passband Respond



Horizontal: 10MHz/Div

Vertical: 0.5dB/Div

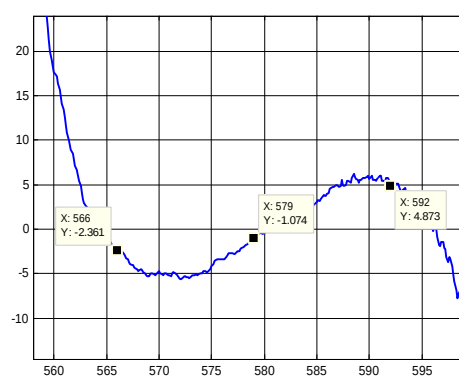
Group Delay Variation



Horizontal: 5MHz/Div

Vertical: 50ns/Div

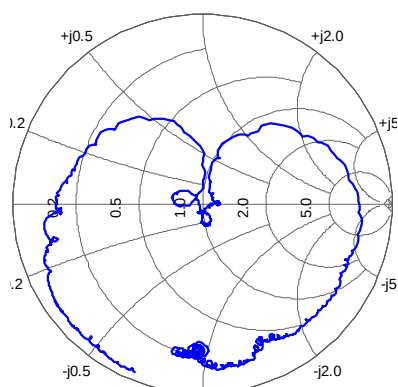
Phase Linearity



Horizontal: 5MHz/Div

Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22

