



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	
<i>Center Frequency</i>	MHz	-	579	-	
<i>Insertion Loss(566~592MHz)</i>	dB	-	1.6	3.5	
<i>Passband Variation(566~592MHz)</i>	dB	-	0.8	1	
<i>Group delay variation(566~592MHz)</i>	ns	-	35	100	
<i>Input/output VSWR(566~592MHz)</i>	-	-	1.33/1.33	2	
<i>Attenuation</i>	<i>DC ~ 530MHz</i>	dB	30	35	-
	<i>645-700 MHz</i>	dB	30	35	-
	<i>700 ~ 1500 MHz</i>	dB	20	30	-
	<i>1500 ~ 2500MHz</i>	dB	10	11	-
<i>Material Temperature coefficient</i>	KHz/°C	-39.37			
<i>Substrate Material</i>	-	41LN			
<i>Ambient Temperature</i>	°C	25			
<i>Operating Temperature Range</i>	°C	-40	-	+85	
<i>Storage Temperature Range</i>	°C	-45	-	+105	
<i>DC Voltage</i>	V	0			
<i>Input Power</i>	dBm	-	-	10	
<i>ESD Class</i>	-	1A			
<i>Package Size</i>	SMD3.8*3.8				

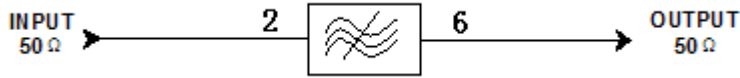
Notes:

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. (CETC No.26 Research Institute) #14 Nanping Huayuan Road, Chongqing, China, 400060	Part Number	LBN57901	
		Rev. Date	2012-01-06	
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Matching Configuration

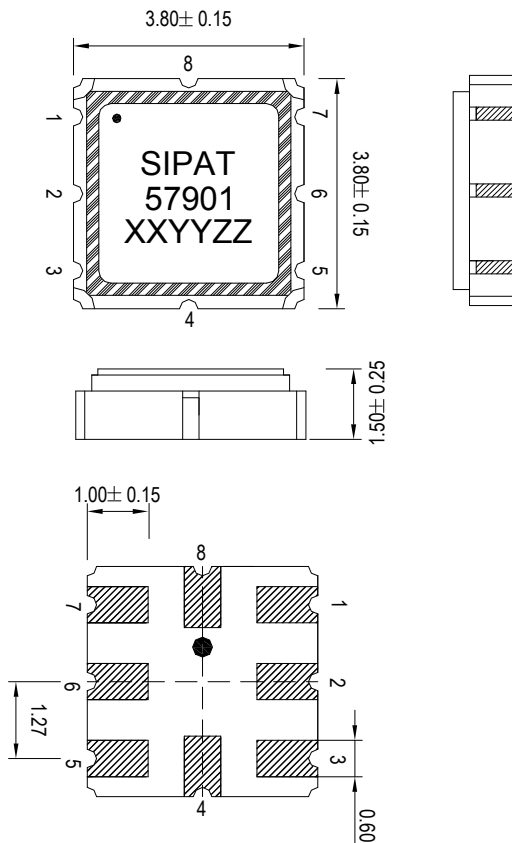
手动测试座



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

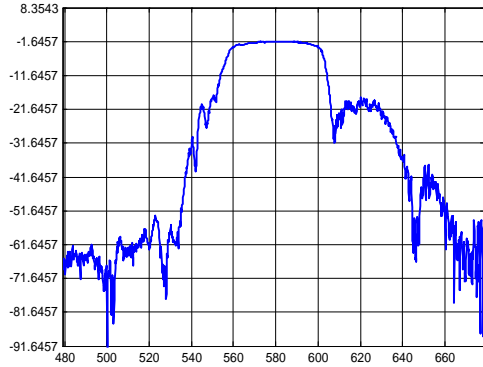


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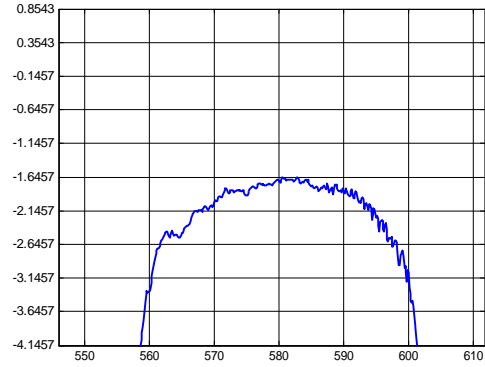
Typical Performance

Frequency Respond



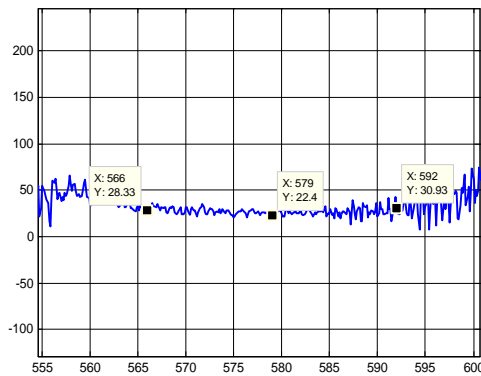
Horizontal: 20MHz/Div Vertical: 10dB/Div

Passband Respond



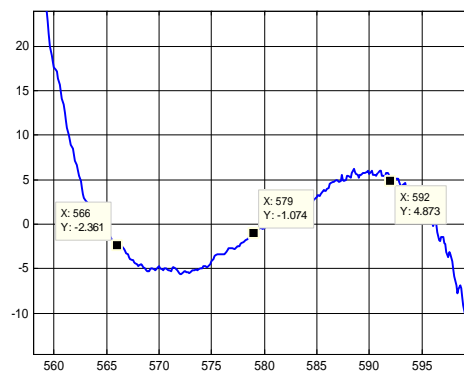
Horizontal: 10MHz/Div Vertical: 0.5dB/Div

Group Delay Variation



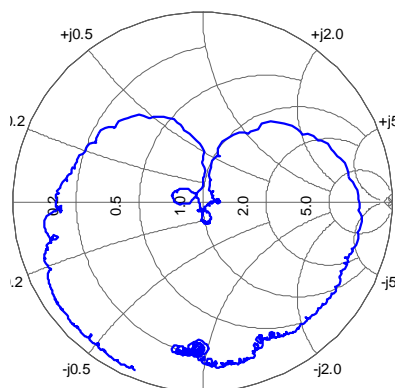
Horizontal: 5MHz/Div Vertical: 50ns/Div

Phase Linearity

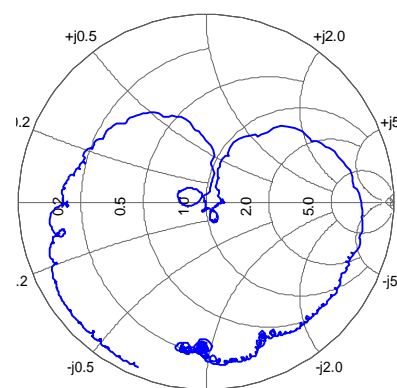


Horizontal: 5MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22



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