



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	522.4	522.5	522.6
<i>Insertion Loss(520~525MHz)</i>	dB	-	3.5	4.5
<i>VSWR(520~525MHz)</i>	MHz	-	1.8	2
<i>1dB bandwidth</i>	dB	4.9	5.76	-
<i>Ultimate Rejection</i>	<i>100 ~ 510MHz</i>	dB	30	-
	<i>510~517.5MHz</i>		15	-
	<i>527.5~535MHz</i>		15	-
	<i>535~1000MHz</i>	dB	30	48
<i>Material Temperature coefficient</i>	KHz/°C	-18.81		
<i>Substrate Material</i>	-	42LT		
<i>Ambient Temperature</i>	°C	25		
<i>Operating Temperature Range</i>	°C	25		
<i>Storage Temperature Range</i>	°C	-55	-	+100
<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	LBT52301	
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Matching Configuration

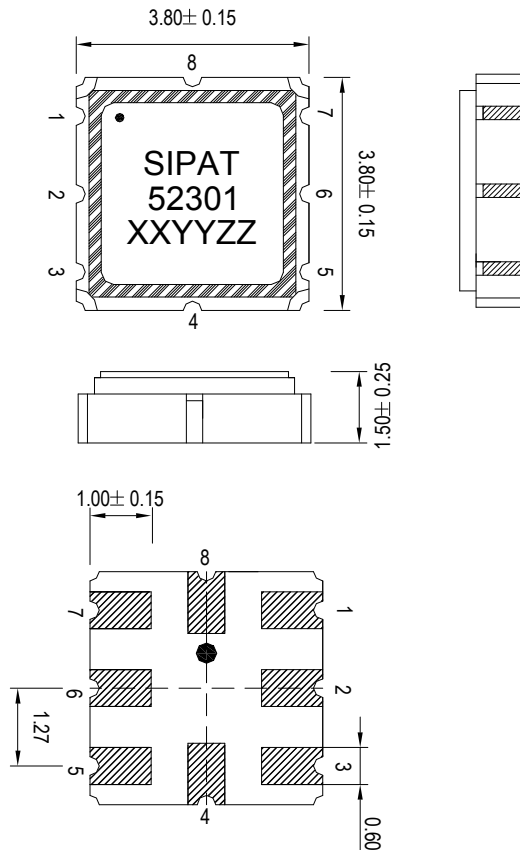
手动测试座

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) 52301: Part Number
- 4) XXYYZZ: Date Code

Package: SMD3.8*3.8

Unit: mm

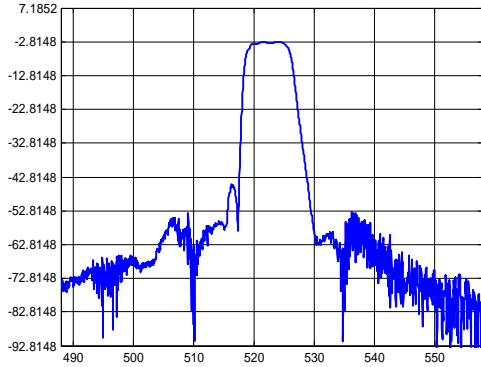


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Chongqing, China, 400060

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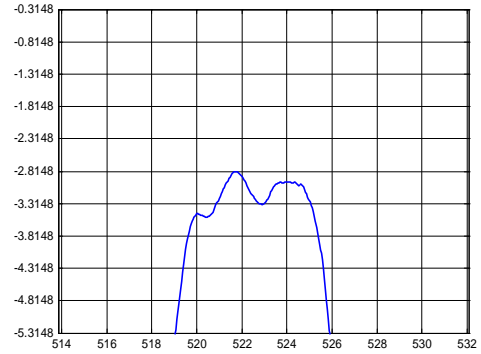
Typical Performance

Frequency Respond



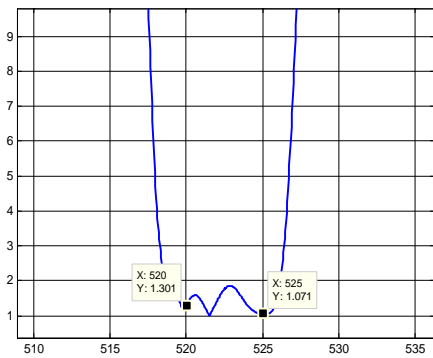
Horizontal: 10MHz/Div Vertical: 10dB/Div

Passband Respond



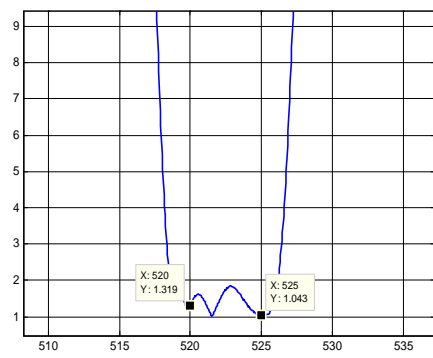
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VSWR S11



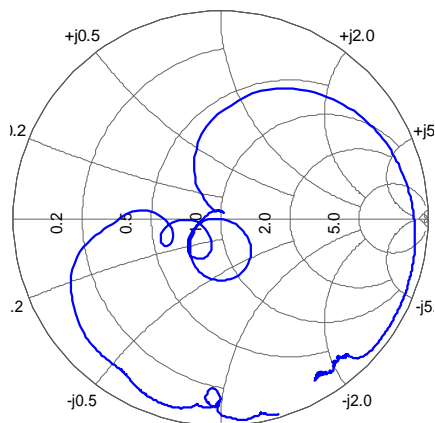
Horizontal: 5MHz/Div Vertical: 1ns/Div

VSWR S22

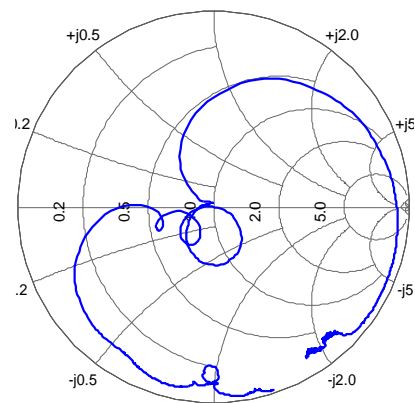


Horizontal: 5MHz/Div Vertical: 1deg/Div

Smith Chart S11



Smith Chart S22



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