



### 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	-	725	-
Insertion Loss	dB	-	2.9	3.5
3 dB Bandwidth	MHz	52	56.5	-
30 dB Bandwidth	MHz	-	92	120
Absolute Delay	usec	-	0.02	-
Ultimate Rejection( $f_0 \pm 75\text{MHz}$ )	dB	-	35	-
Material Temperature coefficient	KHz/°C	-49.3		
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	SMD5.0*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.

	<b>SIPAT Co., Ltd.</b> ( CETC No.26 Research Institute ) #14 Nanping Huayuan Road, Chongqing, China, 400060	Part Number	LBN72501	
		Rev. Date	2009-06-02	
		Ver.	2.0	Page

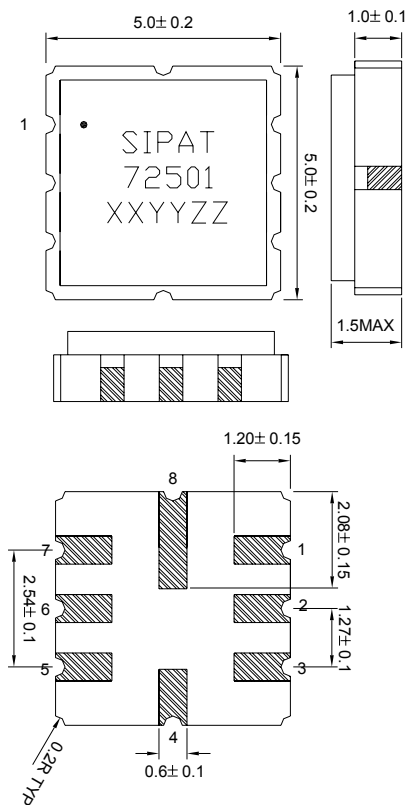
### Matching Configuration



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) 72501: Part Number
- 4) XXYY: Date(Year/month)
- 5) ZZ: Identified Code

Package: SMD5.0\*5.0

Unit: mm



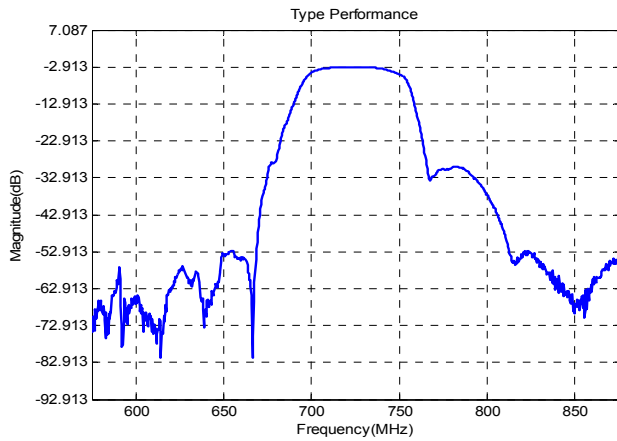
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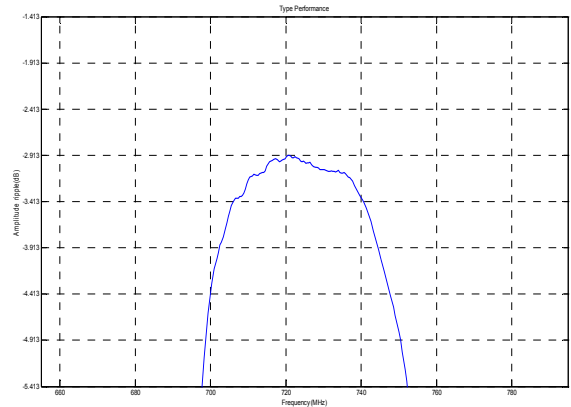
Typical Performance

Frequency Respond



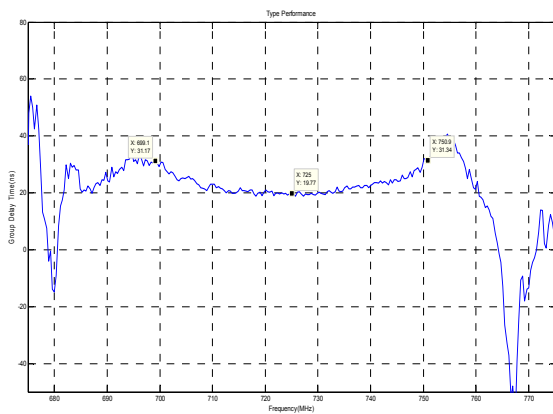
Horizontal: 50MHz/Div Vertical: 10dB/Div

Passband Respond



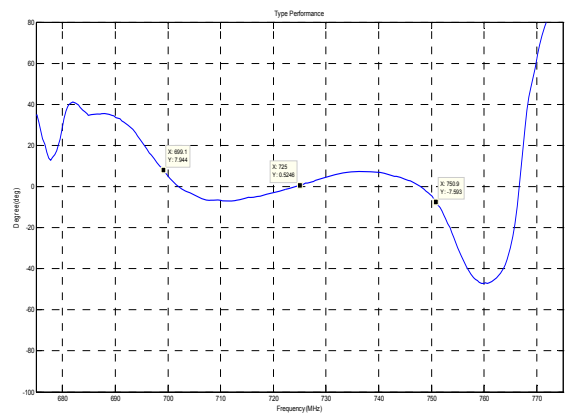
Horizontal: 20MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±26MHz)



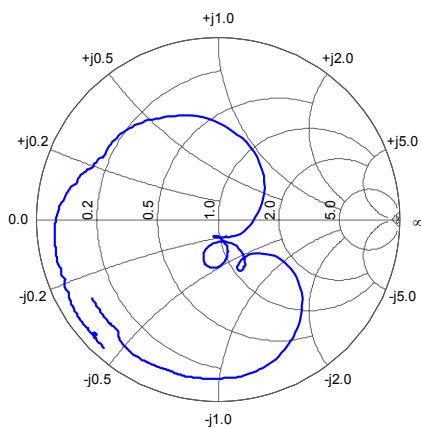
Horizontal: 10MHz/Div Vertical: 20ns/Div

Phase Linearity(f0±26MHz)

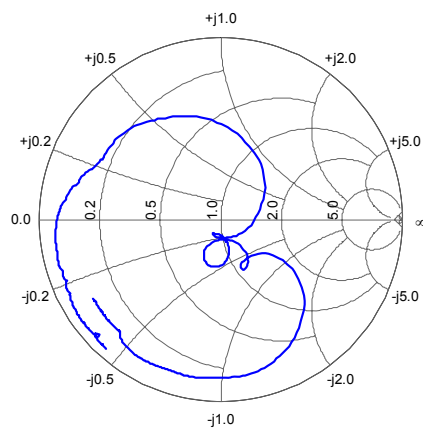


Horizontal: 10MHz/Div Vertical: 20deg/Div

Smith Chart S11



Smith Chart S22



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