Features

- ✧ For RF SAW filter
- ✧ Single-ended operation
- ✧ 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	-	925.4	-
Insertion Loss(919.5～929.5MHz)		dB	-	1.8	2.5
1 dB Bandwidth		MHz	14	14.17	-
40 dB Bandwidth		MHz	-	32.82	35
Passband Variation		dB	-	0.7	1
Absolute Delay		usec	-	0.06	-
Ultimate Rejection	*900.5～910.5MHz*	dB	30	41	-
	900～960MHz	dB	35	38	
Material Temperature coefficient		KHz/°C	-27.76		
Substrate Material		-	42LT		
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		-	1		
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.

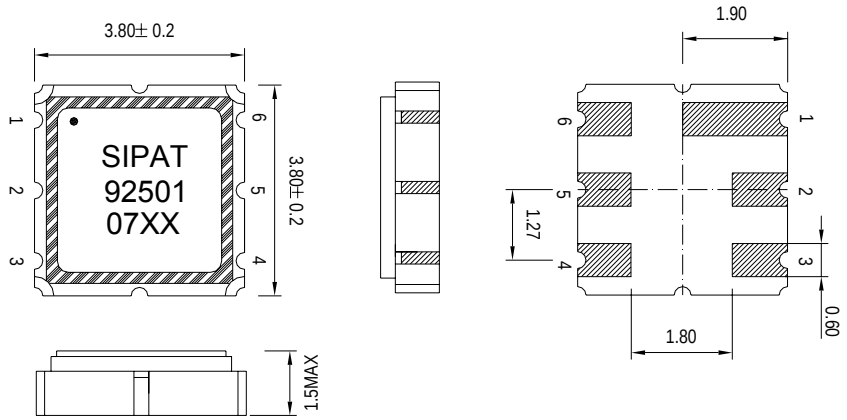
Matching Configuration



Source/Load Impedance=50 ohm

Notes - Component values may change depending on board layout.

Package Dimension



Pad Configuration:

Input 2
Output 5
Ground All Others

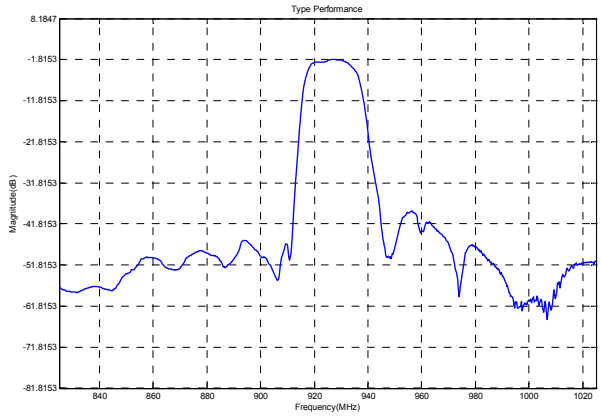
Marking Configuration:

1) •: Pad Number 1 Index
2) SIPAT: Manufacturer Name
3) 92501: Part Number
4) 07XX: Date Code

Package: SMD3.8*3.8 **Unit: mm**

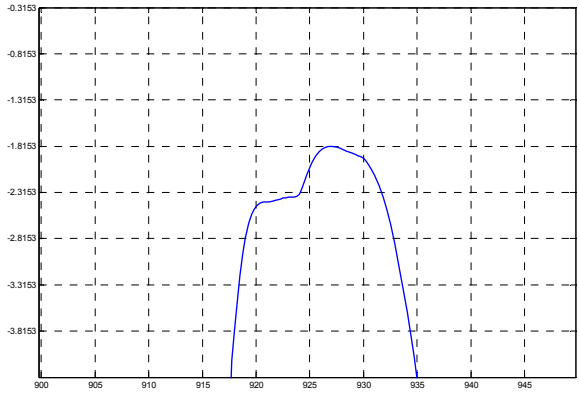
Typical Performance

Frequency Respond



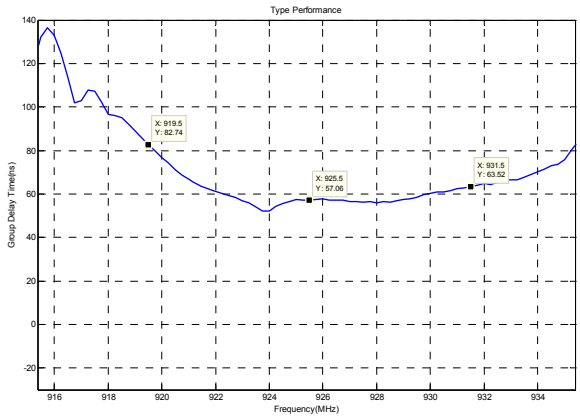
Horizontal: 20MHz/Div Vertical: 10dB/Div

Passband Respond



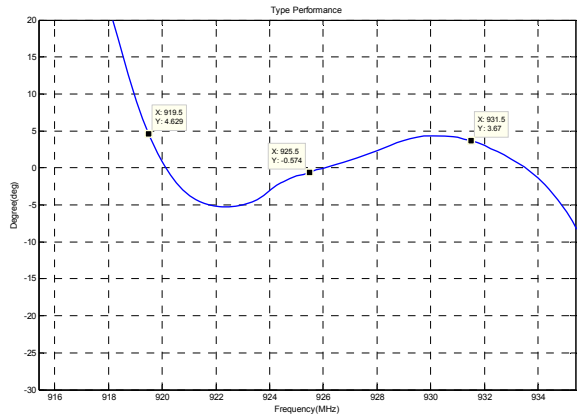
Horizontal: 5MHz/Div Vertical: 0.5dB/Div

Group Delay Variation(f0±6MHz)



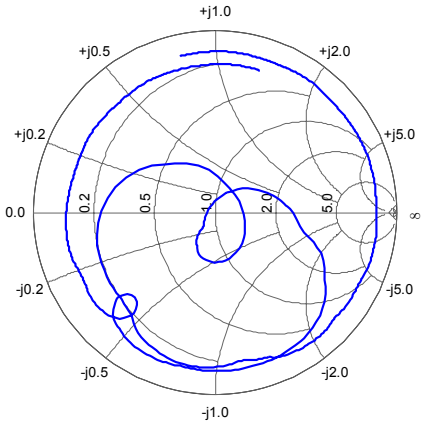
Horizontal: 2MHz/Div Vertical: 20ns/Div

Phase Linearity(f0±6MHz)



Horizontal: 2MHz/Div Vertical: 5deg/Div

Smith Chart S11



Smith Chart S22

