



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

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Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	-	930	-
Insertion Loss	dB	-	2.4	3.5
1 dB Bandwidth	MHz	26	31.13	-
20 dB Bandwidth	MHz	-	52.74	57
Passband Variation	dB	-	0.6	-
Ultimate Rejection	dB	-	31	-
Material Temperature coefficient	KHz/°C	-29.76		
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	-	1A		
Package Size	SMD3.8*3.8			

Notes:

- All specifications are based on the test circuit shown;
- In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature;
- Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances;
- This is the optimum impedance in order to achieve the performance show.



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Part Number	LBT93002		
Rev. Date	2008-09-24		
Ver.	1.0	Page	1/3

Matching Configuration

INPUT
50 Ω

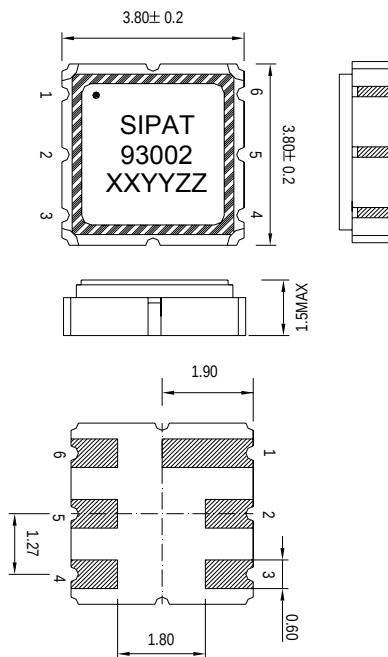


OUTPUT
50 Ω

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) 93002: Part Number
- 4) XXYY: Date(Year/month)
- 5) ZZ: Identified Code

Package: SMD3.8*3.8

Unit: mm



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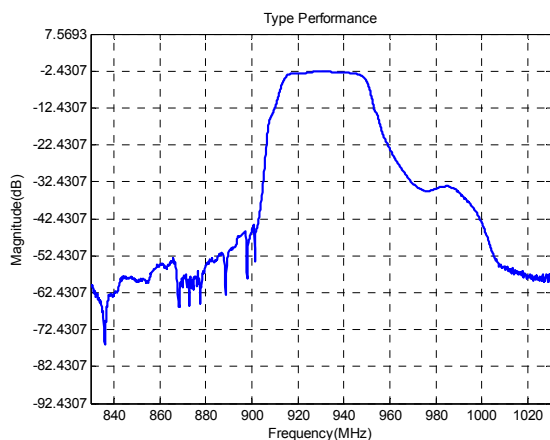
1.0

Page 2/3



Typical Performance

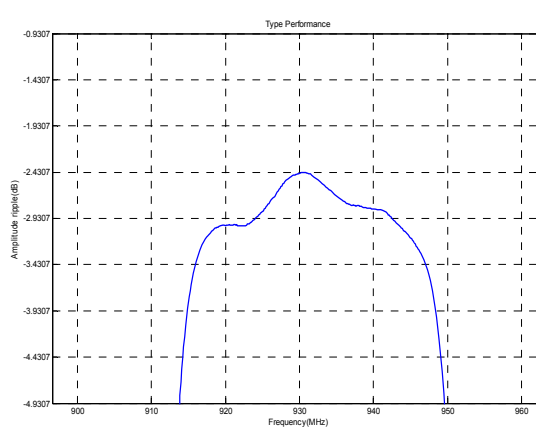
Frequency Respond



Horizontal: 20MHz/Div

Vertical: 10dB/Div

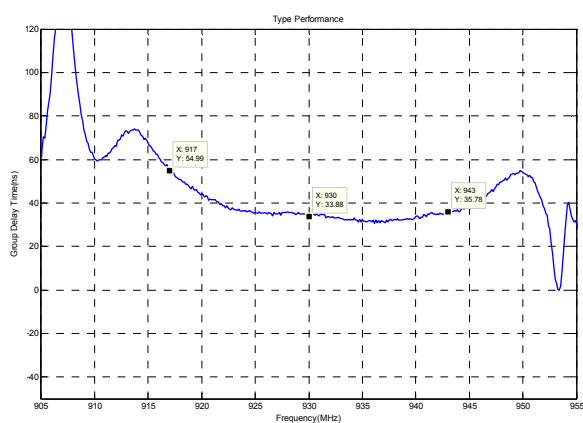
Passband Respond



Horizontal: 10MHz/Div

Vertical: 0.5dB/Div

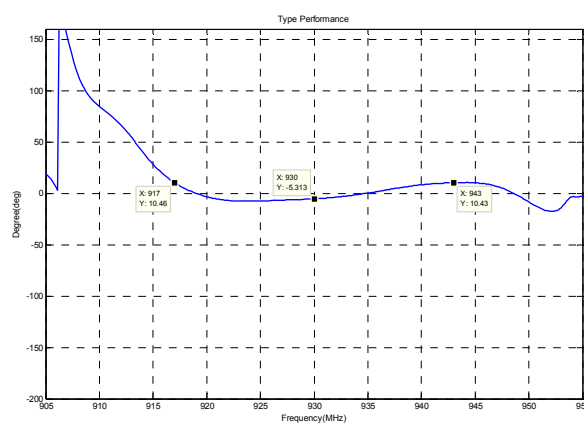
Group Delay Variation($f_0 \pm 2.5$ MHz)



Horizontal: 5MHz/Div

Vertical: 20ns/Div

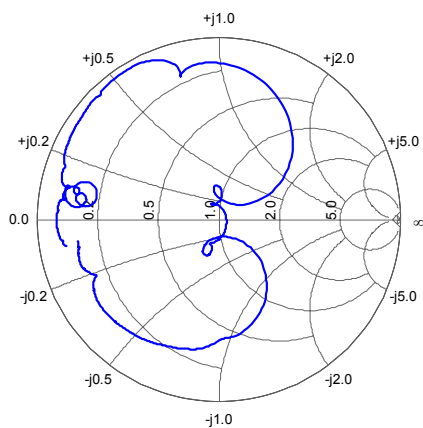
Phase Linearity($f_0 \pm 2.5$ MHz)



Horizontal: 5MHz/Div

Vertical: 50deg/Div

Smith Chart S11



Smith Chart S22

