



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	-	912	-
Insertion Loss (909~915MHz)		dB	-	2.4	3.8
Passband Variation (909~915MHz)		dB	-	0.9	1.2
Ultimate Rejection	DC ~800MHz	dB	35	37	-
	800 ~890MHz	dB	35	37	-
	930 ~950MHz	dB	40	51	-
	950~2000MHz	dB	25	45	-
	2000~3000MHz	dB	20	32	-
VSWR (909~915MHz)		-	-	1.6	2
Group delay variation (909~915MHz)		ns	-	25	50
Material Temperature coefficient		KHz/°C	-29.1		
Substrate Material		-	42LT		
Ambient Temperature		°C	25		
Operating Temperature Range		°C	-45	-	+85
DC Voltage		V	0		
Input Power		dBm	-	-	15
ESD Class		-	1A		
Package Size		SMD3.0*3.0			

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	LBT91201		
Rev. Date	2010-04-30		
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Matching Configuration

INPUT
50 Ω

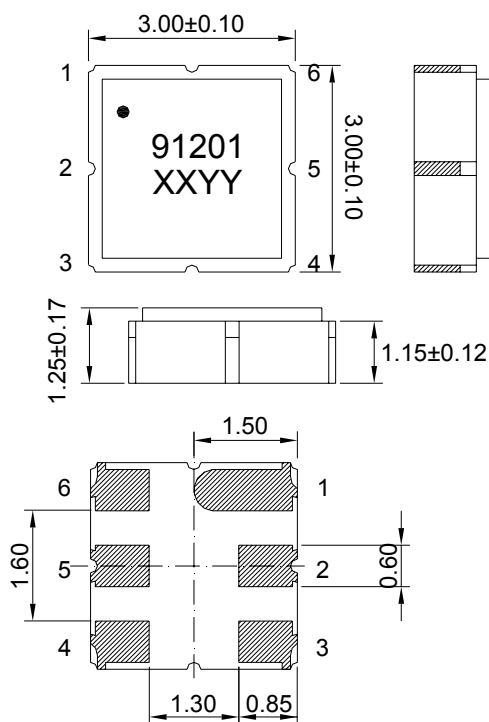


OUTPUT
50 Ω

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) 91201: Part Number
- 3) XXYY: Date(Year/month)

Package: SMD3.0*3.0

Unit: mm



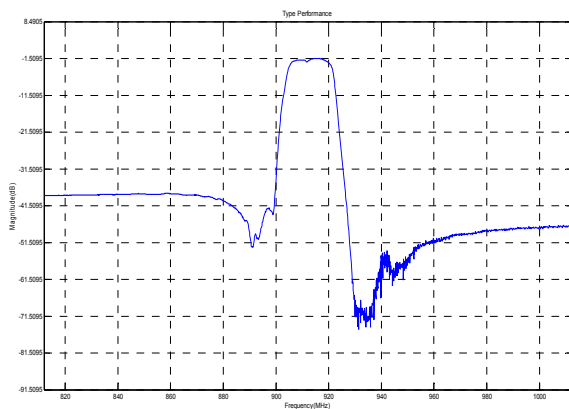
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Typical Performance

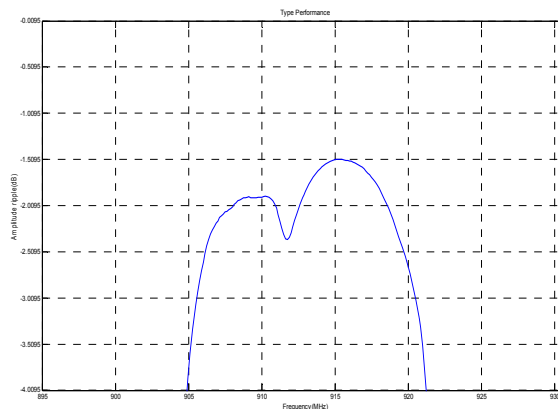
Frequency Response



Horizontal: 20MHz/Div

Vertical: 10dB/Div

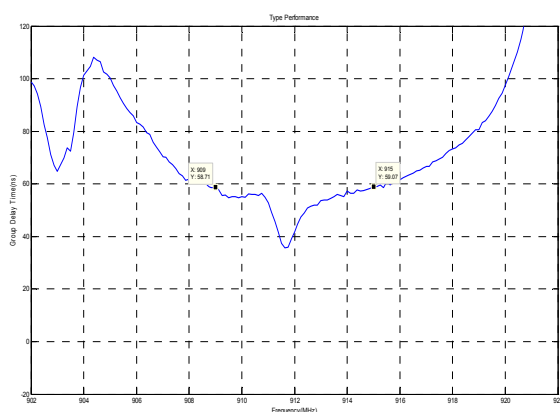
Passband Response



Horizontal: 5MHz/Div

Vertical: 0.5dB/Div

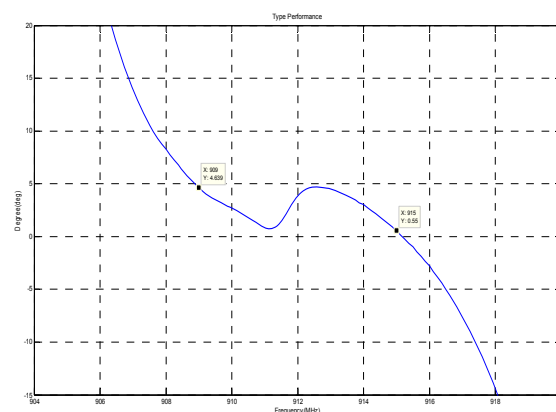
Group Delay Variation(f0±3MHz)



Horizontal: 2MHz/Div

Vertical: 20ns/Div

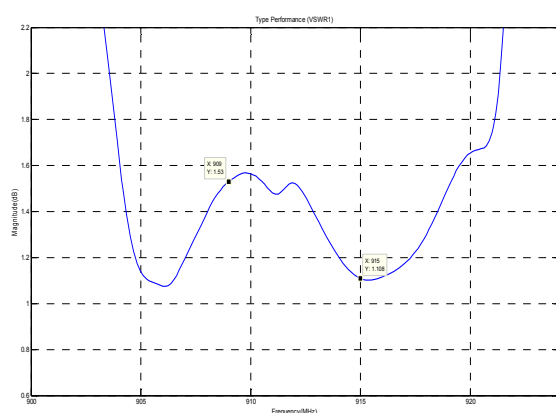
Phase Linearity(f0±3MHz)



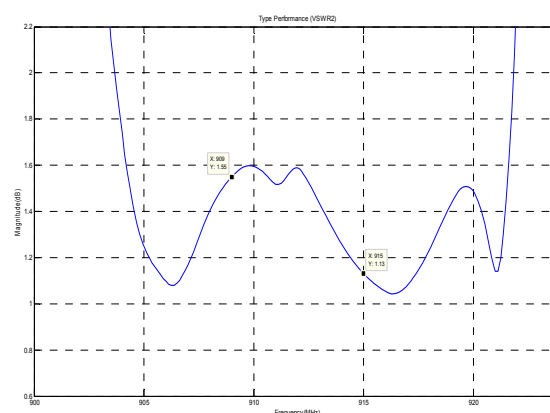
Horizontal: 2MHz/Div

Vertical: 5deg/Div

VSWR11



VSWR22



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