



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

Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	-	942.5	-
Insertion Loss(930.5 ~954.5MHz)	dB	-	1.4	2.5
Passband Variation(930.5 ~954.5MHz)	dB	-	0.5	1
VSWR(930.5 ~954.5MHz)	-	-	1.8	2
Ultimate Rejection(885.5 ~909.5MHz)	dB	20	29	-
Material Temperature coefficient	KHz/°C	-30.2		
Substrate Material	-	42LT		
Ambient Temperature	°C	25		
Operating Temperature Range	°C	-40	-	+85
DC Voltage	V	0		
Input Power	dBm	-	-	10
ESD Class	-	1A		
Package Size	SMD3.0*3.0			

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.



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Part Number	LBT94201		
Rev. Date	2011-03-15		
Ver.	1.0	Page	1/3

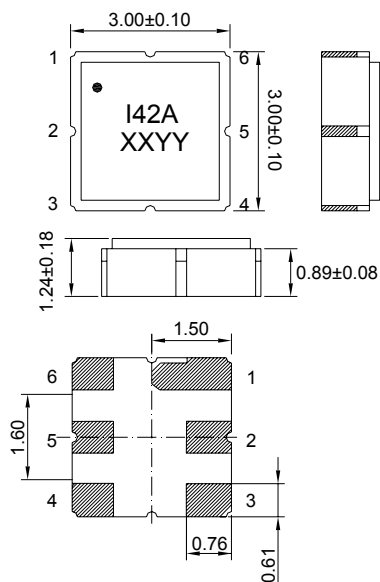
Matching Configuration



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) I42A: Part Number
- 3) XXYY: Date(Year/month)

Package: SMD3.0*3.0

Unit: mm



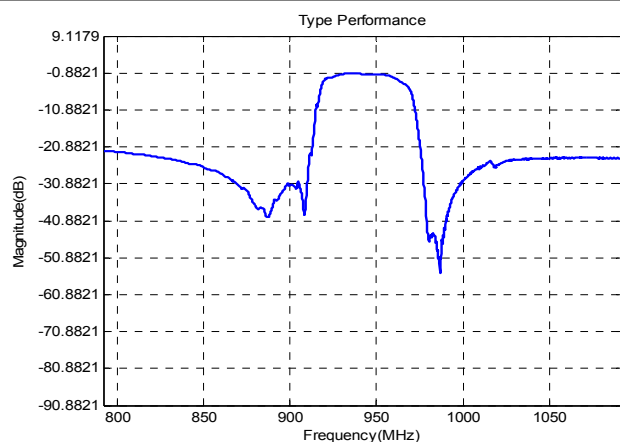
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Typical Performance

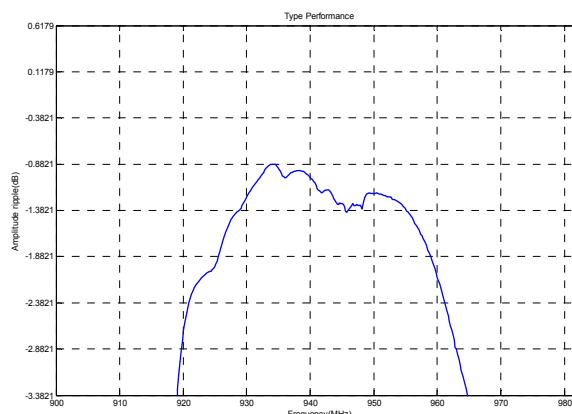
Frequency Response



Horizontal: 50MHz/Div

Vertical: 10dB/Div

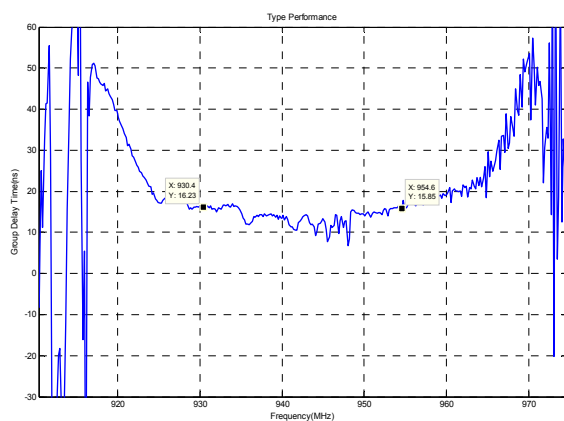
Passband Response



Horizontal: 10MHz/Div

Vertical: 0.5dB/Div

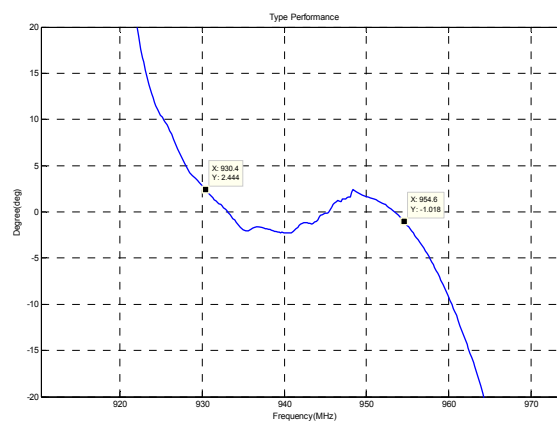
Group Delay Variation(930.5~954.5MHz)



Horizontal: 10MHz/Div

Vertical: 10ns/Div

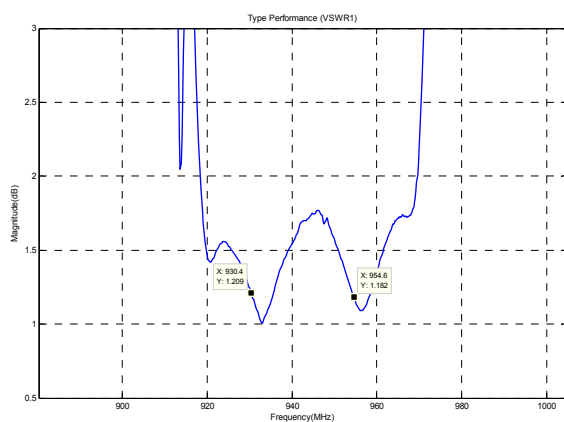
Phase Linearity(930.5~954.5MHz)



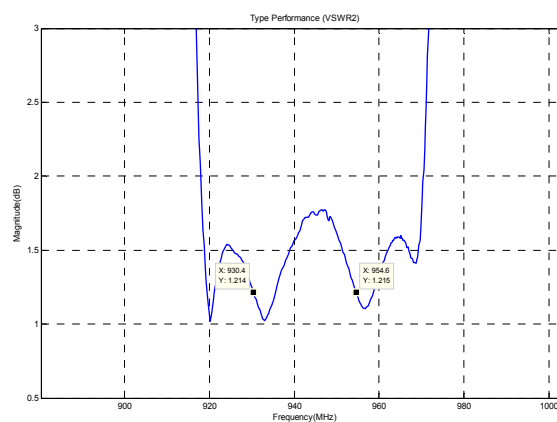
Horizontal: 10MHz/Div

Vertical: 5deg/Div

VSWR11(930.5~954.5MHz)



VSWR22(930.5~954.5MHz)



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