



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	-	942.5	-
Insertion Loss(930.5 ~954.5MHz)		dB	-	1.9	3
Input/Output VSWR(930.5 ~954.5MHz)		-	-	1.7	2
Passband Variation(930.5 ~954.5MHz)		dB	-	0.5	1
Ultimate Rejection	600 ~850MHz	dB	35	49	-
	885.5 ~909.5MHz	dB	20	38	-
	1000 ~1200MHz	dB	35	40	-
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:

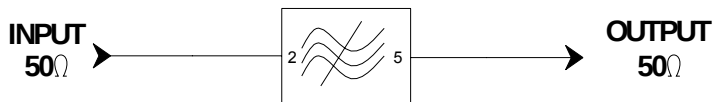
1. All specifications are based on the test circuit shown;
2. In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature;
3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing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



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Part Number	LBT94304	
Rev. Date	2011-08-01	
Ver.	1.0	Page 1/3

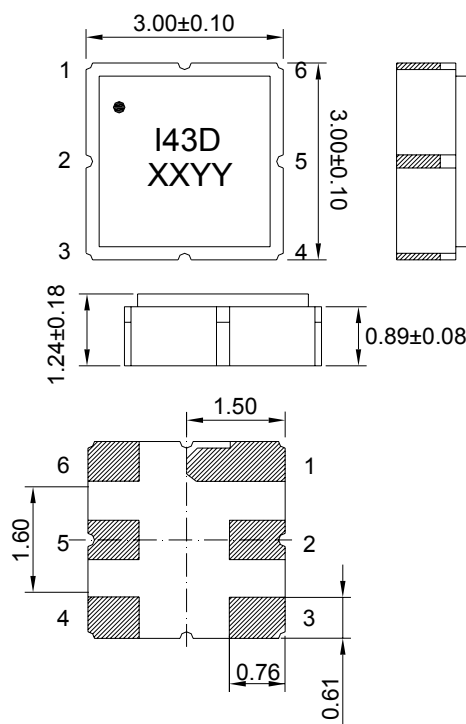
Matching Configuration



Source / Load Impedance=50 ohm

Notes - Component values may change depending
on board layout.

Package Dimension



Pad Configuration:

Input: 2
Output: 5
Ground: 1,3,4,6

Marking Configuration:

1) •: Pad Number 1 Index
2) I43D: Part Number
3) XXYY: Date(Year/month)

Package: SMD3.0*3.0

Unit: mm



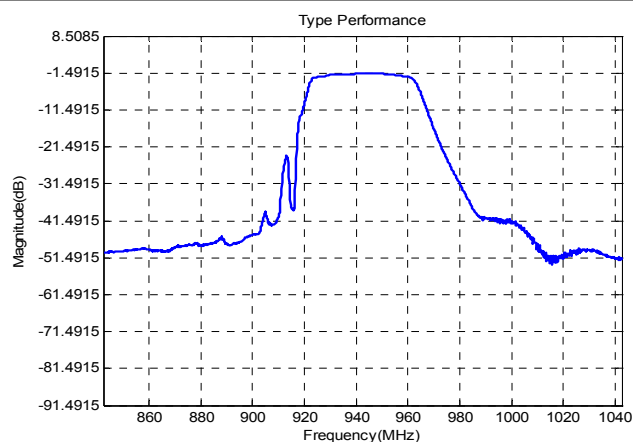
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Typical Performance

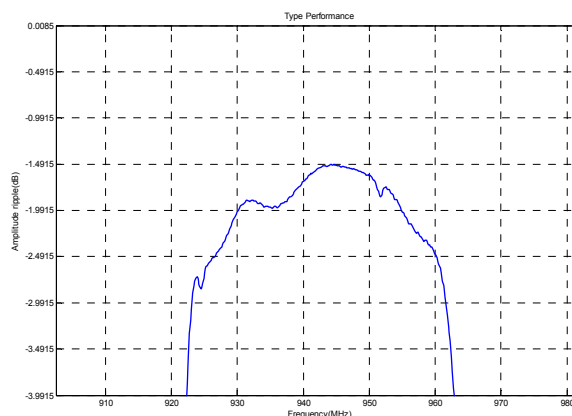
Frequency Response



Horizontal: 20MHz/Div

Vertical: 10dB/Div

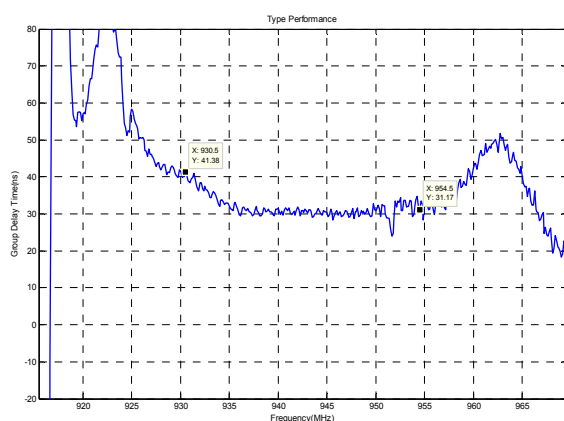
Passband Response



Horizontal: 10MHz/Div

Vertical: 0.5dB/Div

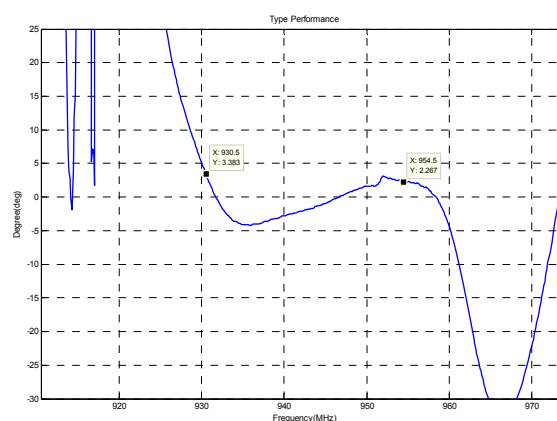
Group Delay Variation($f_0 \pm 12$ MHz)



Horizontal: 5MHz/Div

Vertical: 10ns/Div

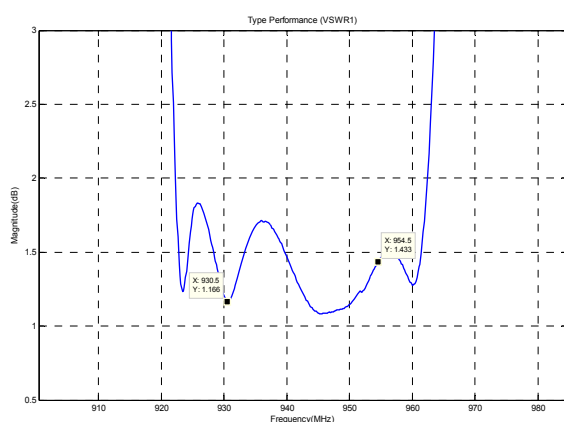
Phase Linearity($f_0 \pm 12$ MHz)



Horizontal: 10MHz/Div

Vertical: 5deg/Div

Input VSWR($f_0 \pm 12$ MHz)



Output VSWR($f_0 \pm 12$ MHz)

