



## 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        | -       | 340     | -       |
| Insertion Loss(336~344MHz)        |              | dB         | -       | 1.7     | 3       |
| Passband Variation(336~344MHz)    |              | dB         | -       | 0.7     | 1       |
| VSWR(336~344MHz)                  |              | -          | -       | 1.6     | 2       |
| Group Delay Variation(336~344MHz) |              | nsec       | -       | 70      | 80      |
| Ultimate Rejection                | 10~330MHz    | dB         | 30      | 31      | -       |
|                                   | 350~700MHz   | dB         | 30      | 30      | -       |
|                                   | 700~1500MHz  | dB         | 20      | 29      | -       |
|                                   | 1500~2500MHz | dB         | 5       | 6       | -       |
| Material Temperature coefficient  |              | KHz/°C     | -10.9   |         |         |
| Substrate Material                |              | -          | 42LT    |         |         |
| Ambient Temperature               |              | °C         | 25      |         |         |
| Operating Temperature Range       |              | °C         | -40     | -       | +85     |
| Storage Temperature Range         |              | °C         | -40     | -       | +85     |
| DC Voltage                        |              | V          | 0       |         |         |
| Input Power                       |              | dBm        | -       | -       | 10      |
| ESD Class                         |              | -          | 1A      |         |         |
| Package Size                      |              | SMD3.8*3.8 |         |         |         |

### Notes:

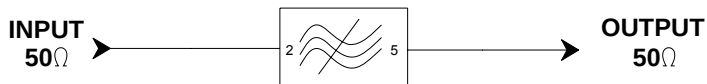
1. All specifications are based on the test circuit shown;
2. In production, all specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature;
3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing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



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|             |            |          |
|-------------|------------|----------|
| Part Number | LBT34003   |          |
| Rev. Date   | 2011-08-01 |          |
| Ver.        | 1.0        | Page 1/3 |

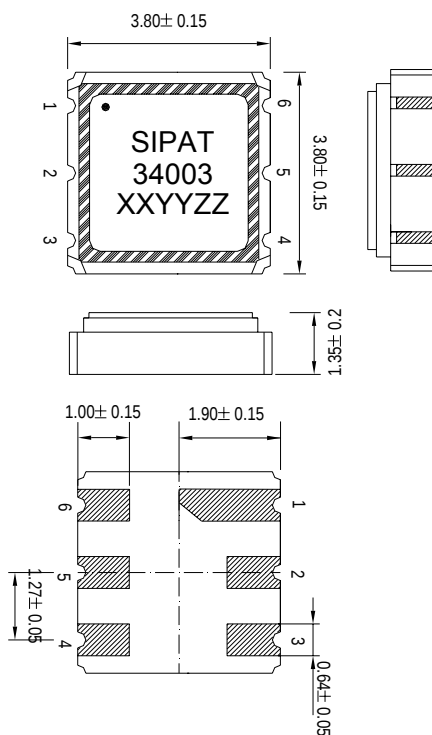
### Matching Configuration



**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) SIPAT: Manufacturer Name
- 3) 34003: Part Number
- 4) XXYY: Date(Year/month)
- 5) ZZ: Identified Code

**Package: SMD3.8\*3.8**

**Unit: mm**



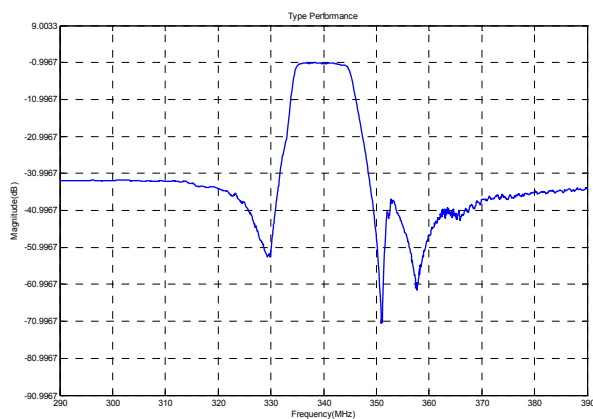
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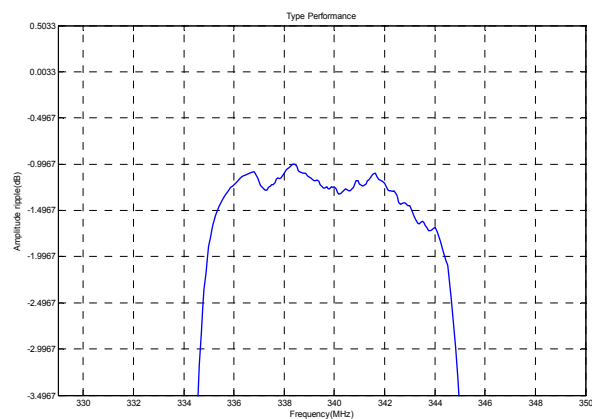


## Typical Performance

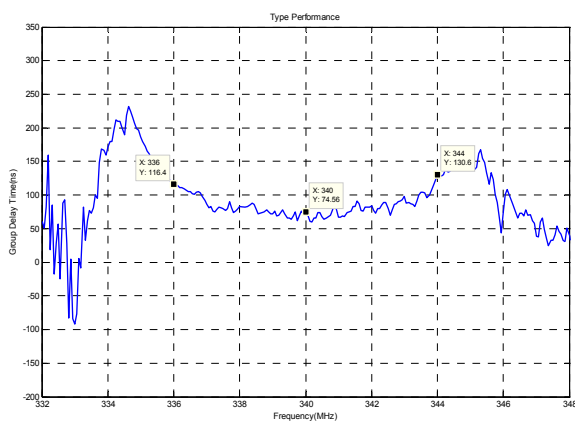
Frequency Response



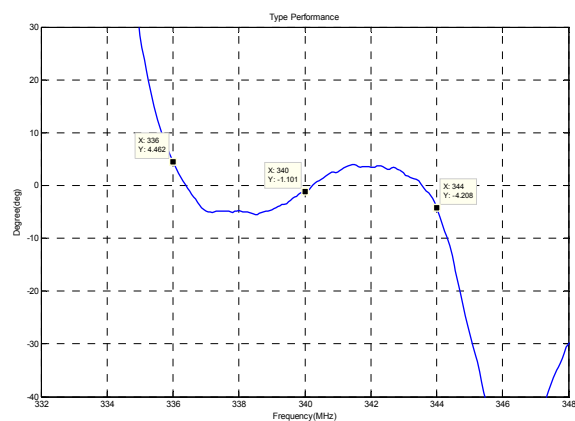
Passband Response



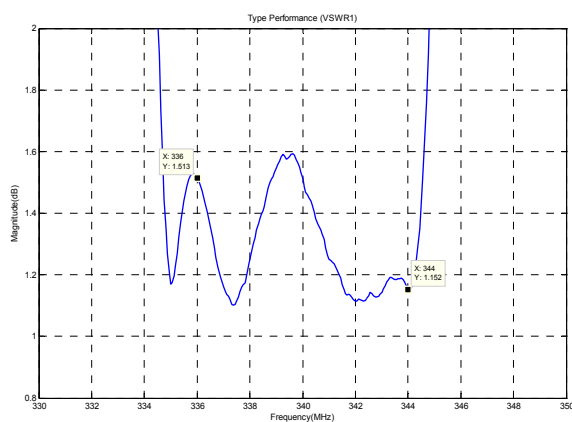
Group Delay Variation( $f_0 \pm 4\text{MHz}$ )



Phase Linearity( $f_0 \pm 4\text{MHz}$ )



Input VSWR( $f_0 \pm 4\text{MHz}$ )



Output VSWR( $f_0 \pm 4\text{MHz}$ )

