

### 1. Features

- Typical 1dB bandwidth of 18.3 MHz
- High attenuation
- Single Ended Operation
- Surface Mounted Package (SMD)

**RoHS Compliant**

Tested by SGS Testing Korea

### 2. Electrical Specifications

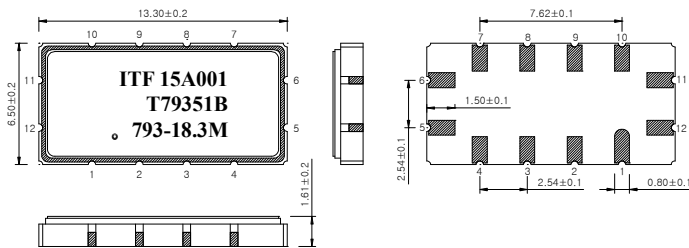
Source and Load Impedance = 50Ω

| Operating Temperature : 0°C~70°C     |                     | Minimum | Typical | Maximum |
|--------------------------------------|---------------------|---------|---------|---------|
| Center Frequency (fo)                | MHz                 | -       | 793.0   | -       |
| Insertion Loss                       | dB                  | -       | 25.5    | 27.0    |
| 1dB Bandwidth                        | MHz                 | 18.1    | 18.34   | -       |
| 3dB Bandwidth                        | MHz                 | -       | 18.8    | -       |
| 18dB Bandwidth                       | MHz                 | -       | 20.03   | 20.4    |
| 33dB Bandwidth                       | MHz                 | -       | 21.06   | 22.0    |
| Amplitude Ripple (fo ± 9.0 MHz)      | dB                  | -       | 1.1     | 3.0     |
| Group Delay Variation (fo ± 9.0 MHz) | nsec                | -       | 80      | 200     |
| Absolute Delay                       | usec                | -       | 1.43    | -       |
| Temperature Coefficient of Frequency | ppm/°C <sup>2</sup> | -0.03   |         |         |

Source and Load Impedance = 50Ω

| Room Temperature : +25°C             |    | Minimum | Typical | Maximum |
|--------------------------------------|----|---------|---------|---------|
| Insertion Loss                       | dB | -       | 25.5    | 27.0    |
| Amplitude Ripple (fo ± 9.0 MHz)      | dB | -       | 1.1     | 3.0     |
| Relative Attenuation (fo ± 10.2 MHz) | dB | 18      | 28      | -       |

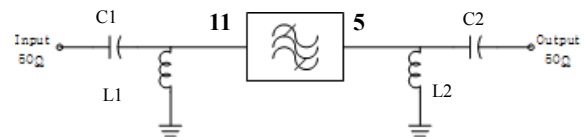
#### S1365 Package Dimension



Dimensions shown are nominal in millimeters

Body : Al<sub>2</sub>O<sub>3</sub>  
 Lid : Kovar, Ni Plated  
 Termination : Au plating 0.3 ~ 1.0um, over a 1.27 ~ 8.89um Ni Plating

#### Matching Network Configuration



**L1 = L2 = 3.9nH, C1 = C2 = 15pF**

| Pin Configuration |    |        |        |
|-------------------|----|--------|--------|
| Input             | 11 | Ground | 12,6   |
| Output            | 5  | Others | Ground |

**3. Typical Performance ( at +25°C )**

