

## 1. Features

- Typical 1dB Bandwidth of 11.11 MHz
- Low-Loss Filter
- Single Ended Operation
- Surface Mounted Package (SMD)

**RoHS Compliant**

Tested by SGS Testing Korea

## 2. Electrical Specifications

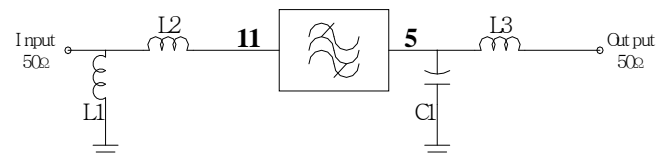
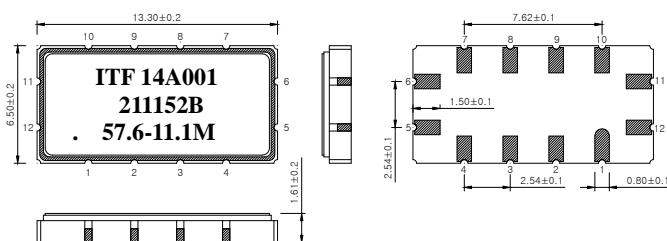
Source and Load Impedance = 50

| Operating Temperature : -30°C ~ +80°C |        | Minimum | Typical | Maximum |
|---------------------------------------|--------|---------|---------|---------|
| Center Frequency (fo)                 | MHz    | -       | 57.6    | -       |
| Insertion Loss                        | dB     | -       | 12.5    | 14.5    |
| 1dB Bandwidth                         | MHz    | 10.7    | 11.11   | -       |
| 3dB Bandwidth                         | MHz    | -       | 11.92   | -       |
| 40dB Bandwidth                        | MHz    | -       | 15.5    | 16.0    |
| Amplitude Ripple (fo ± 4.9 MHz)       | dB     | -       | 0.45    | 1.0     |
| Group Delay Variation (fo ± 4.9 MHz)  | nsec   | -       | 40      | 90      |
| Absolute Delay                        | usec   | -       | 0.98    | 1.0     |
| Ultimate Rejection                    | dB     | 40      | 45      | -       |
| Temperature Coefficient of Frequency  | ppm/°C | -       | -86     | -       |

| Room Temperature : +25°C              |      | Minimum | Typical | Maximum |
|---------------------------------------|------|---------|---------|---------|
| Insertion Loss                        | dB   | -       | 12.5    | 14.0    |
| Amplitude Ripple (fo ± 5.18 MHz)      | dB   | -       | 0.45    | 1.0     |
| Group Delay Variation (fo ± 5.18 MHz) | nsec | -       | 40      | 90      |

### S1365 Package Dimension

### Matching Schematic



**L1 = 150nH, L2 = 120nH, C1 = 10pF, L3 = 68nH**

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

### Pin Configuration

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

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

