

## 1. Features

- Typical 1dB bandwidth of 10.45 MHz
- Low-Loss Filter
- Single Ended Operation
- Surface Mounted Package (SMD)

**RoHS Compliant**

Tested by SGS Testing Korea

## 2. Electrical Specifications

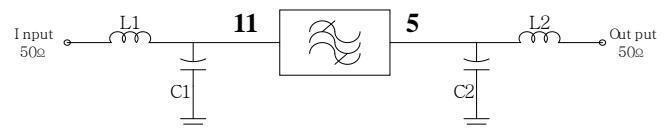
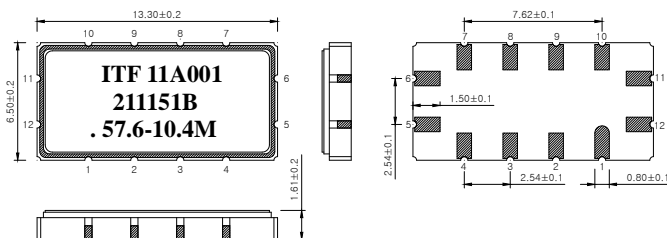
Source and Load Impedance = 50

| Operating Temperature : -30°C ~ +80°C |        | Minimum | Typical | Maximum |
|---------------------------------------|--------|---------|---------|---------|
| Center Frequency (fo)                 | MHz    | -       | 57.6    | -       |
| Insertion Loss                        | dB     | -       | 11.5    | 14.5    |
| 1dB Bandwidth                         | MHz    | 9.9     | 10.45   | -       |
| 3dB Bandwidth                         | MHz    | -       | 11.15   | -       |
| 40dB Bandwidth                        | MHz    | -       | 14.6    | 15.2    |
| Amplitude Ripple (fo ± 4.5 MHz)       | dB     | -       | 0.5     | 1.0     |
| Group Delay Variation (fo ± 4.5 MHz)  | nsec   | -       | 45      | 90      |
| Absolute Delay                        | usec   | -       | 0.98    | 1.0     |
| Ultimate Rejection                    | dB     | 40      | 49      | -       |
| Temperature Coefficient of Frequency  | ppm/°C | -       | -86     | -       |

| Room Temperature : +25°C              |      | Minimum | Typical | Maximum |
|---------------------------------------|------|---------|---------|---------|
| Insertion Loss                        | dB   | -       | 11.5    | 14.0    |
| Amplitude Ripple (fo ± 4.78 MHz)      | dB   | -       | 0.5     | 1.0     |
| Group Delay Variation (fo ± 4.78 MHz) | nsec | -       | 45      | 90      |

### S1365 Package Dimension

### Matching Schematic



**L1 = 220nH, C1 = 3pF, C2 = 3pF, L2 = 150nH**

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

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

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

