

### 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 = 50Ω

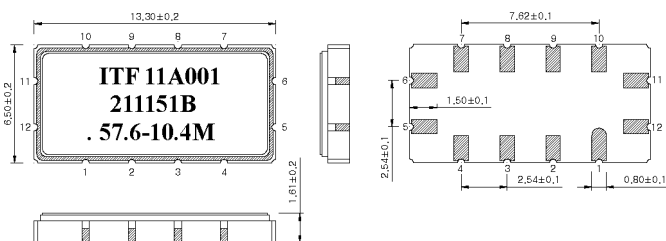
Operating Temperature : -30℃ ~ +80℃

|                                      |       | 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/℃ | -       | -86     | -       |

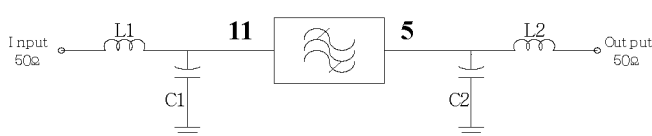
Room Temperature : +25℃

|                                       |      | 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

#### Pin Configuration

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

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

