

## 1. Features

- Typical 1dB bandwidth of 19.2 MHz
- High attenuation
- Single Ended Operation
- Surface Mounted Package (SMD)

**RoHS Compliant**

Tested by SGS Testing Korea

## 2. Electrical Specifications

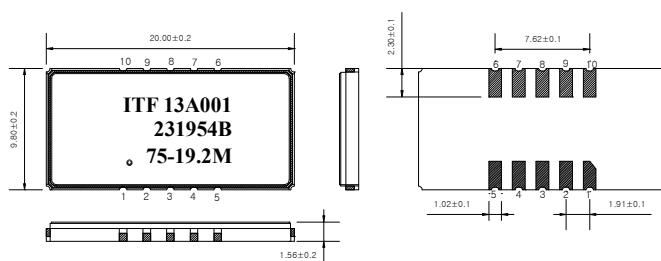
Source and Load Impedance = 50Ω

| Operating Temperature : -30 ~ +80 °C  |        | Minimum | Typical | Maximum |
|---------------------------------------|--------|---------|---------|---------|
| Center Frequency (fo)                 | MHz    | -       | 75.0    | -       |
| Insertion Loss                        | dB     | -       | 24.0    | 25.5    |
| 1dB Bandwidth                         | MHz    | 19.05   | 19.26   | -       |
| 3dB Bandwidth                         | MHz    | -       | 19.52   | -       |
| 40dB Bandwidth                        | MHz    | -       | 20.57   | 20.85   |
| Amplitude Ripple (fo ± 9.0075MHz)     | dB     | -       | 0.55    | 1.0     |
| Group Delay Variation (fo ±9.0075MHz) | nsec   | -       | 45      | 80      |
| Absolute Delay                        | usec   | -       | 2.42    | -       |
| Ultimate Rejection                    | dB     | 45      | 50      | -       |
| Temperature Coefficient of Frequency  | ppm/°C | -       | -72     | -       |

| Room Temperature : +25 °C             |      | Minimum | Typical | Maximum |
|---------------------------------------|------|---------|---------|---------|
| Insertion Loss                        | dB   | -       | 24.0    | 25.5    |
| Amplitude Ripple (fo ± 9.36 MHz)      | dB   | -       | 0.55    | 1.0     |
| Group Delay Variation (fo ± 9.36 MHz) | nsec | -       | 45      | 80      |

Input POWER : +10dBm

### S2098 Package Dimension



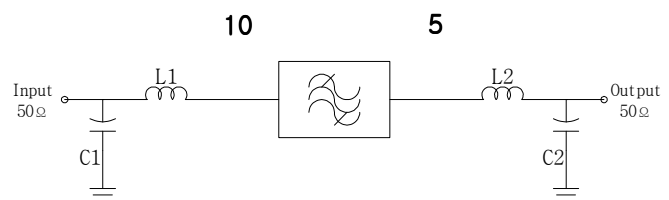
Dimensions shown are nominal in millimeters

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 Schematic



**L1 = 150nH, L2 = 120nH, C1 = C2 = 20pF**

| Pin Configuration |    |        |        |
|-------------------|----|--------|--------|
| Input             | 10 | Ground | 1,6    |
| Output            | 5  | Others | Ground |

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

