

1. Features

- Typical 1dB bandwidth of 16.5 MHz
- Low-Loss Filter
- Single Ended Operation
- Surface Mounted Package (SMD)

RoHS Compliant

Tested by SGS Testing Korea

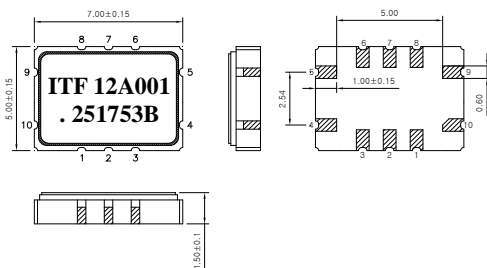
2. Electrical Specifications

Source and Load Impedance = 50

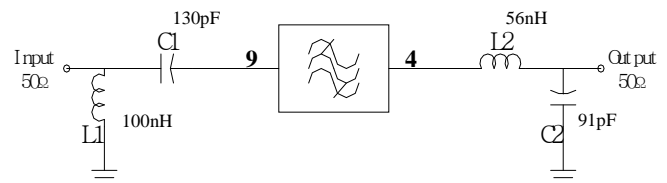
| Operating Temperature : 0 °C ~ +80 °C | | Minimum | Typical | Maximum |
|---------------------------------------|--------|---------|---------|---------|
| Center Frequency (fo) | MHz | - | 100.5 | - |
| Insertion Loss | dB | - | 11.6 | 14.0 |
| 1dB Bandwidth | MHz | 16.05 | 16.5 | - |
| 3dB Bandwidth | MHz | - | 17.5 | - |
| 35dB Bandwidth | MHz | - | 21.4 | 21.9 |
| Amplitude Ripple (fo ± 7.25 MHz) | dB | - | 0.45 | 1.0 |
| Group Delay Variation (fo ± 7.25 MHz) | nsec | - | 40 | 80 |
| Absolute Delay | usec | - | 0.68 | - |
| Ultimate Rejection | dB | 35 | 40 | - |
| Temperature Coefficient of Frequency | ppm/°C | - | -86 | - |

| Room Temperature : +25 °C | | Minimum | Typical | Maximum |
|--------------------------------------|------|---------|---------|---------|
| Insertion Loss | dB | - | 11.6 | 13.5 |
| Amplitude Ripple (fo ± 7.6 MHz) | dB | - | 0.45 | 1.0 |
| Group Delay Variation (fo ± 7.6 MHz) | nsec | - | 40 | 80 |
| Relative Attenuation | | | | |
| Edge(93.25 MHz) – 5.0 MHz | dB | 25 | 55 | - |
| 190.0 MHz ~ 340.0 MHz | dB | 35 | 45 | - |

S7050 Package Dimension



Matching Schematic



Dimensions shown are nominal in millimeters

Body : Al₂O₃

Lid : Kovar, Ni Plated

Termination : Au plating 0.3 ~ 1.0um, over a 1.27 ~ 8.89um Ni Plating

Pin Configuration

| | 9 | Ground | 5, 10 |
|--------|---|--------|--------|
| Input | | | |
| Output | 4 | Others | Ground |

3. Typical Performance (at +25)

