

## 1. Features

- Typical 1dB bandwidth of 10.3 MHz
- High attenuation
- Single Ended Operation
- Dual In-line Package (DIP)

**RoHS Compliant**

Tested by SGS Testing Korea

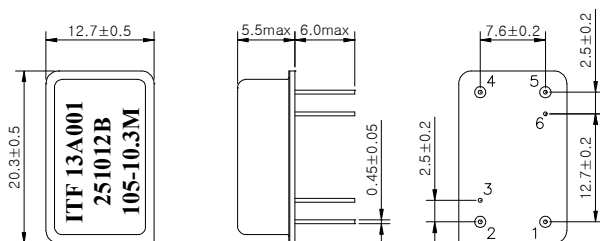
## 2. Electrical Specifications

Source and Load Impedance = 50Ω

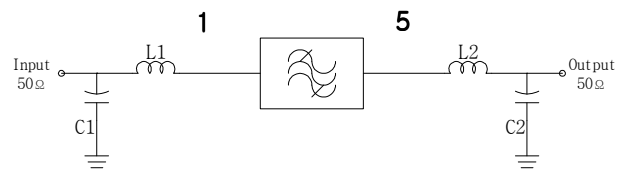
| Operating Temperature : -30°C ~ +80°C |        | Minimum | Typical | Maximum |
|---------------------------------------|--------|---------|---------|---------|
| Center Frequency (fo)                 | MHz    | -       | 105.0   | -       |
| Insertion Loss                        | dB     | -       | 22.5    | 24.0    |
| 1 dB Bandwidth                        | MHz    | 10.1    | 10.31   | -       |
| 3dB Bandwidth                         | MHz    | -       | 10.63   | -       |
| 40dB Bandwidth                        | MHz    | -       | 11.91   | 12.0    |
| Amplitude Ripple (fo ± 4.51 MHz)      | dB     | -       | 0.5     | 1.0     |
| Group Delay Variation (fo ± 4.51 MHz) | nsec   | -       | 50      | 100     |
| Absolute Delay                        | usec   | -       | 1.95    | 2.00    |
| Ultimate Rejection                    | dB     | 48      | 53      | -       |
| Temperature Coefficient of Frequency  | ppm/°C | -72     |         |         |

| Room Temperature : +25°C              |      | Minimum | Typical | Maximum |
|---------------------------------------|------|---------|---------|---------|
| Insertion Loss                        | dB   | -       | 22.5    | 24.0    |
| Amplitude Ripple (fo ± 4.94 MHz)      | dB   | -       | 0.5     | 1.0     |
| Group Delay Variation (fo ± 4.94 MHz) | nsec | -       | 50      | 100     |

### D2012 Package Dimension



### Matching Schematic



$$L1 = L2 = 33\text{nH}, C1 = C2 = 47\text{pF}$$

Dimensions shown are nominal in millimeters

Base : Fe(SPCC), Au plating over Ni plated  
Cap : Cu & Cr Alloy, Ni Plated  
Termination : Kovar, Au Plated

### Pin Configuration

|        | 1 | Ground | 2,4    |
|--------|---|--------|--------|
| Input  | 1 | Ground | 2,4    |
| Output | 5 | Others | Ground |

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

