

## 1. Features

- Typical 1dB bandwidth of 1.8 MHz
- Single Ended Operation
- Dip Package

**RoHS Compliant**

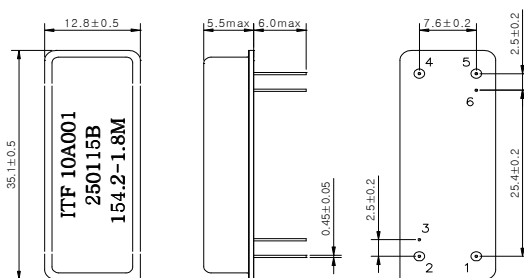
Tested by SGS Testing Korea

## 2. Electrical Specifications

Source and Load Impedance = 50Ω

| Room Temperature : +25°C                        |                     | Minimum | Typical | Maximum |
|---|---------------------|---------|---------|---------|
| Center Frequency (fo)                           | MHz                 | -       | 154.2   | -       |
| Insertion Loss                                  | dB                  | -       | 23.0    | 25.0    |
| 1dB Bandwidth                                   | MHz                 | 1.8     | 1.83    | -       |
| 3dB Bandwidth                                   | MHz                 | -       | 1.97    | -       |
| 40dB Bandwidth                                  | MHz                 | -       | 2.56    | 2.7     |
| Amplitude Ripple (fo ± 0.8 MHz)                 | dB                  | -       | 0.45    | 1.0     |
| Group Delay Variation (fo ± 0.8 MHz)            | nsec                | -       | 190     | 300     |
| Absolute Delay                                  | usec                | -       | 4.45    | -       |
| Ultimate Rejection                              | dB                  | 50      | 55      | -       |
| Relative Attenuation<br>(fo+/-0.9MHz)+/- 400KHz | dB                  | 30      | 43      | -       |
| (fo+/-0.9MHz)+/- 600KHz                         | dB                  | 45      | 55      | -       |
| Temperature Coefficient of Frequency            | ppm/°C <sup>2</sup> | -       | -0.03   | -       |

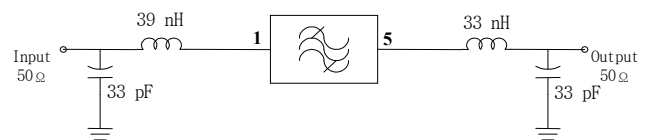
### D3512 Package Dimension



Dimensions shown are nominal in millimeters

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

### Matching Schematic



### Pin Configuration

|               | 1 | Ground | 2,4    |
|---------------|---|--------|--------|
| <b>Input</b>  | 1 | Ground | 2,4    |
| <b>Output</b> | 5 | Others | Ground |

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

