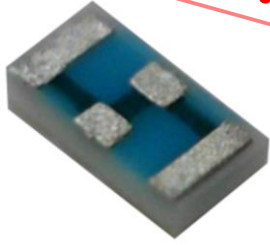


**Under development**

# High Frequency Chip Attenuators



## ■ATS Series

### Features

- 1005 EIA standard case size
- Attenuation values 0dB - 10dB
- DC-50GHz performance
- Ni-alloy thin-film resistive elements
- Facedown type

### Application

- Cell phone base stations, Wireless communication modules etc.



## ◆Part numbering system

**ATS 1005 - 1dB - FD - T1**

Series code: **ATS**  
 Size "1005" = 1.0 × 0.5mm  
 Attenuation: **1dB**  
 Facedown type: **FD**  
 Packaging quantity: **T1** (1,000pcs)

## ◆Electrical Specification

| Attenuation | Type(circuit diagram) | Frequency Range | Attenuation Tolerance | VSWR Tolerance | Nominal Impedance | Power Rating | Packaging Quantity                    |
|-------------|-----------------------|-----------------|-----------------------|----------------|-------------------|--------------|---------------------------------------|
| 0dB         | THRU(Fig.3)           | DC~25GHz        | ±0.75dB               | ≤1.4           | 50 Ω              | 32mW         | Reel<br>T05 = 500pcs<br>T1 = 1,000pcs |
|             |                       | 25GHz~40GHz     | ±1.25dB               | ≤1.6           |                   |              |                                       |
|             |                       | 40GHz~50GHz     | ±2.00dB               | ≤1.8           |                   |              |                                       |
| 1dB-10dB    | Pi(Fig.4)             | DC~25GHz        | ±0.75dB               | ≤1.4           |                   |              |                                       |
|             |                       | 25GHz~40GHz     | ±1.25dB               | ≤1.6           |                   |              |                                       |
|             |                       | 40GHz~50GHz     | ±2.00dB               | ≤1.8           |                   |              |                                       |

## ◆Dimensions (mm)

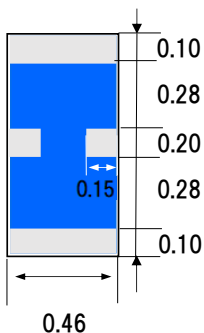
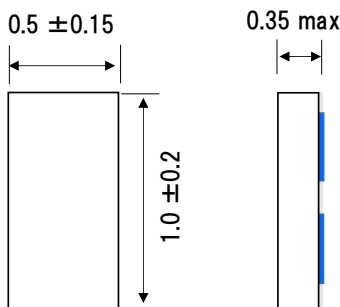


Fig.1 1dB

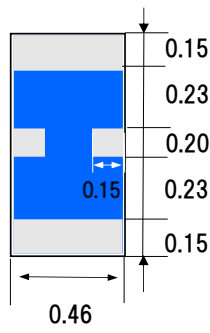
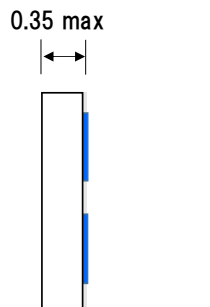


Fig.2 0dB, 2dB~10dB

## ◆Circuit Diagram

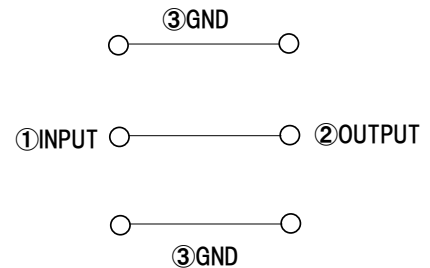
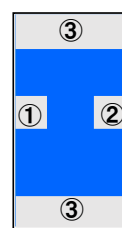


Fig.3 THRU

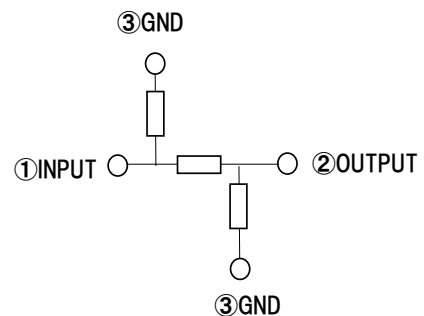
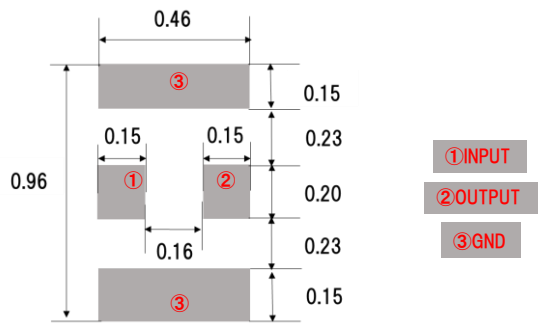


Fig.4 Pi



## ◆ Recommended Land Patterns (mm)



## ◆ High frequency characteristics

