

# LF Receiver Antenna CAS16D14



## Description

- LF receiver antenna for X/Y axis.
- Covered by over-molding.
- Low profile.
- High Sensitivity and Reliability.
- L × W × H: 17.0 × 3.5 × 1.65 mm Max.
- Product weight: 0.23g Ref..
- RoHS compliance.

## Environmental Data

- Operating temperature range: -40°C~+85°C
- Storage temperature range: -40°C~+125°C

## Packaging

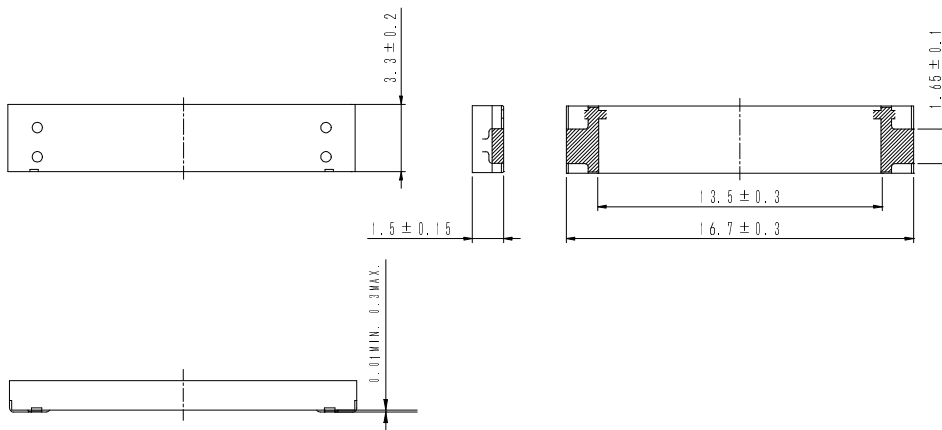
- Carrier Tape and Reel.
- Tape specification according to EIA481.
- 3000pcs/reel.

## Applications

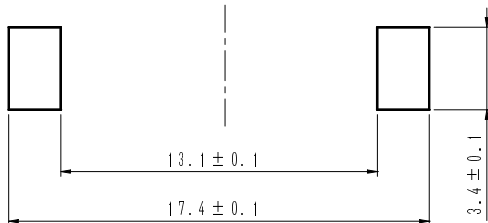
- PEPS, Smart key system.
- Security system



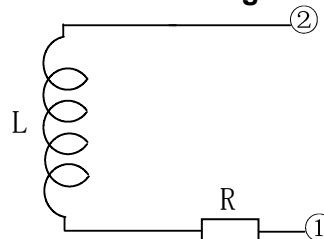
## Dimension - [mm]



## Suggest PCB layout - [mm]

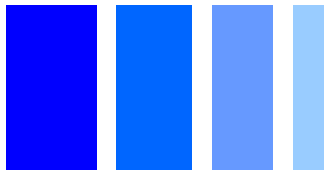


## Schematic diagram



L: Ferrite core coil inductance.  
R: Copper resistance.

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## Electrical Characteristics

| Part No.     | Stamp | Inductance      | Qu     | D.C.R.<br>(Ref.) | SRF        | Measuring<br>conditions |
|--------------|-------|-----------------|--------|------------------|------------|-------------------------|
| CAS16D14-232 | 232   | 2.38mH $\pm$ 3% | Min.30 | 40.0 $\Omega$    | Min.1.2MHz | 125kHz,1V               |
| CAS16D14-602 | 602   | 6.0mH $\pm$ 3%  | Min.30 | 84.2 $\Omega$    | Min.700kHz | 125kHz,1V               |

\* It is possible for different inductance value.