



## RFID/NFC FPC ANT, 100mm, 28AWG, RECT, 13.56MHz

**Part Numbers: L000644-01**

The **L000644-01** is an NFC (Near Field Communications) antenna designed for high performance two-way read/write operations at 13.56MHz.

The compact, flexible antenna is supplied with adhesive backing for ease of installation. It can be mounted inside a plastic device enclosure or on an internal battery. This version comes with 100mm Twisted Pair 28AWG cable with a HRS connector to allow for installation flexibility.

### FEATURES & BENEFITS

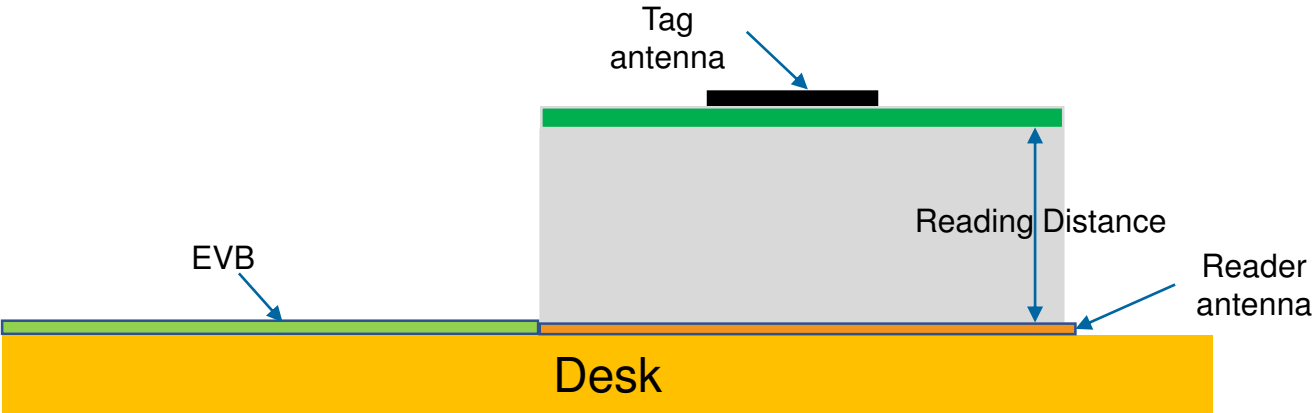
- Frequency **13.56MHz**
- Universal antenna module assembly
- Low-profile
- Flexible embedded antenna
- Higher reading distance than competition
- Peel and Stick adhesive application
- 100mm or custom twisted pair pigtail with HRS connector

### SPECIFICATIONS

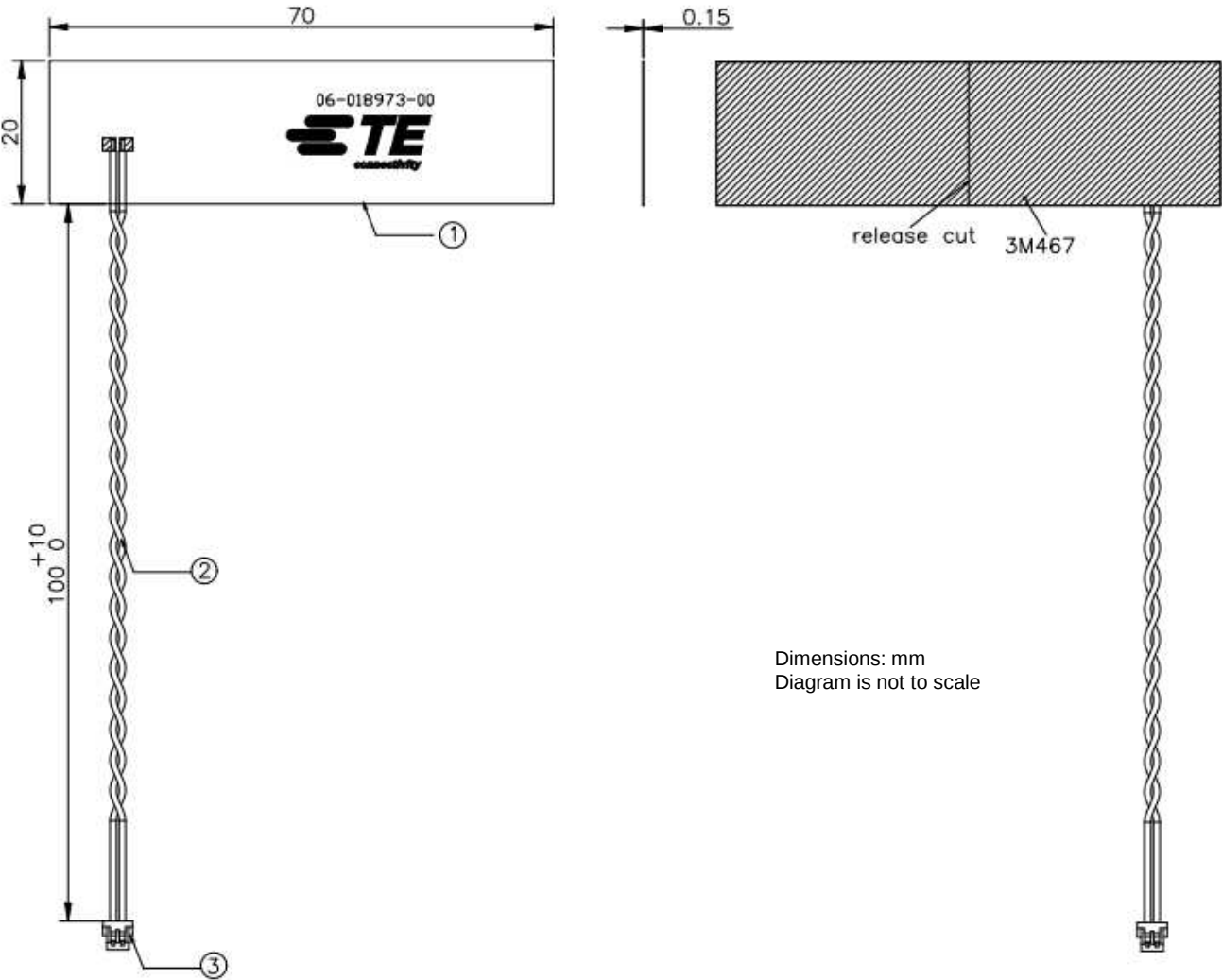
|                       |                                                                                |
|-----------------------|--------------------------------------------------------------------------------|
| Frequency Range       | 13.56 MHz                                                                      |
| Self inductance (La)  | 2 uH                                                                           |
| RDC                   | 2 Ohm                                                                          |
| Reading Distance      | 88 mm                                                                          |
| Size                  | 70 mm x 20 mm x 0.15 mm                                                        |
| Weight                | <1 g                                                                           |
| Operating Temperature | -40 to +85°C                                                                   |
| Storage Temperature   | -40 to +85°C                                                                   |
| Hazardous Materials   | A certificate of conformance is available from the product page on TE website. |

# TEST SETUP

EVB MB1414 board



DIMENSIONS

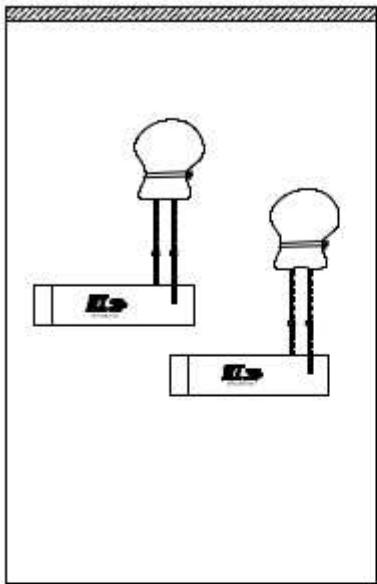


|     |           |      |
|-----|-----------|------|
| 1   | HRS CONN. | 3    |
| 1   | CABLE     | 2    |
| 1   | FPC       | 1    |
| QTY | DES       | ITEM |

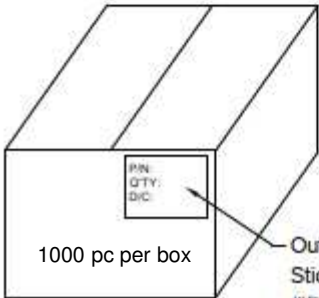
MATING COMPONENTS TO PART NUMBERS  
AND DIMENSIONS

|            |                    |       |        |                |                                                                      |                                                                                     |
|------------|--------------------|-------|--------|----------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| L000644-01 | 100                | 3.937 | 28 AWG | Wire to Board  | On antenna : Compatible with TE<br>PN# 440146-2<br>1.25mm WTB Socket |  |
|            |                    |       |        |                | Mapping : TE PN# 1734260-2<br>1.25mm WTB HDR                         |  |
| PART       | MM                 | INCH  | CABLE  | CONNECTOR TYPE | PART NUMBER                                                          | IMAGE                                                                               |
| NUMBER     | CABLE<br>LENGTH(A) |       |        | (ON CABLE)     | MATING COMPONENTS                                                    |                                                                                     |

PACKAGING



10PCS Antenna A Bundle  
50PCS Antenna Per bag and seal  
(10支天線綁一束,每包50支天線並封口)



Outside the carton:  
Stick the label on the side mark  
(將標籤黏貼於外箱側麥)

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