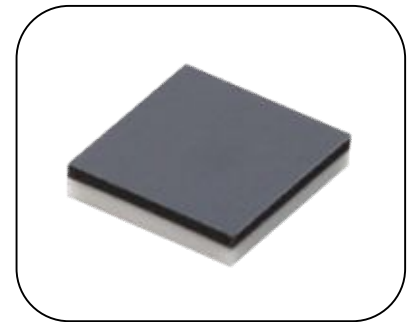# HF MAGICSTRAP® Product Data Sheet
## LXMS33HCNK-171

**muRata**

## 1, General Descriptions

This product is NFC Forum type2 / ISO14443 TypeA

compliant tag which includes embedding antenna.

### [Features]

- Ultra miniature package (3.2 x 3.2 x 0.75mmMax)
- RF antenna is embedded within substrate
- Robust package design
- NFC forum type2 compliant
- Using NXP NTAG210, 384bits user memory
- Read range: 12mm (200mW output power, 37 x 54mm antenna)
- Can be attached to a wide range of objects
- Operating temperature $-40^{o}C \sim +85^{o}C$
- 100% green material for RoHS compliance

## 2, Block Diagram
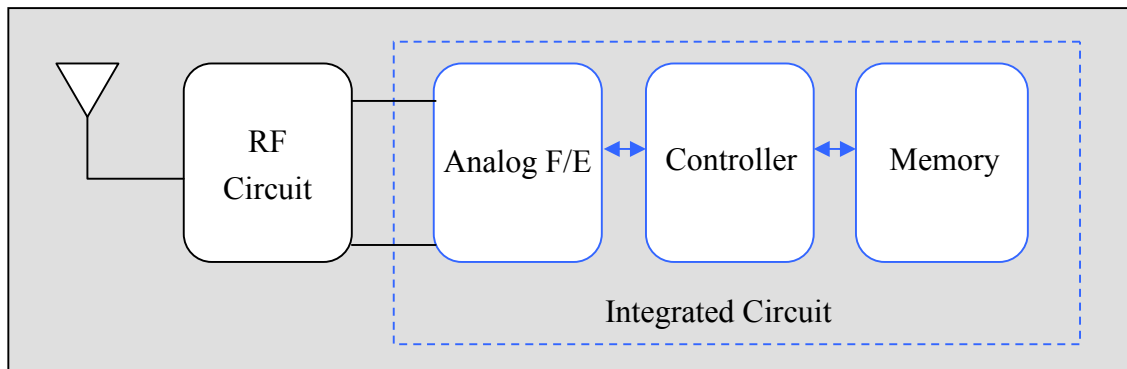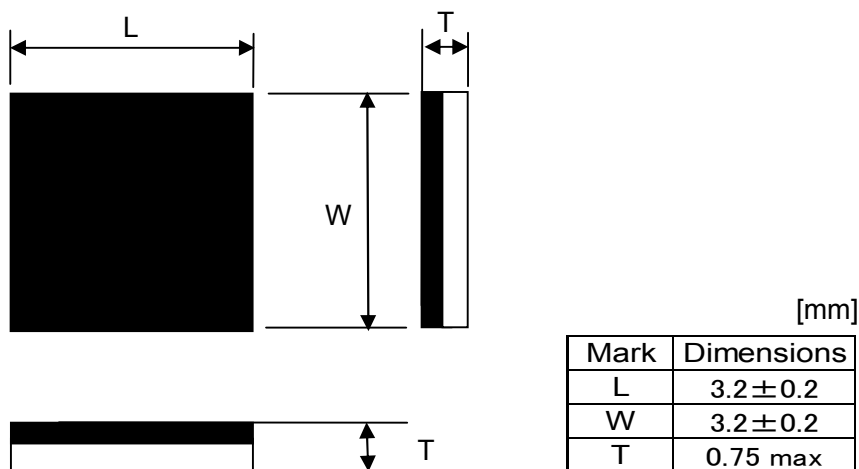
Figure.1 shows block diagram of this product.



Fig1. Block diagram

V1.0 January 2016

## 3, Dimension



| Mark | Dimensions |
|------|------------|
| L | $3.2 \pm 0.2$ |
| W | $3.2 \pm 0.2$ |
| T | 0.75 max |

[mm]

**Fig.2 Package Dimension**

## 4, Example of Electrical Performance

12mm of Read range*

*Reader/Writer : TI TRF7960 Reference Board

Reader/Writer antenna : 37x54mm on TI TRF7960 Reference Board

Output Power of Reader/Writer : 200mW

V1.0 January 2016

## 5, Packing Information
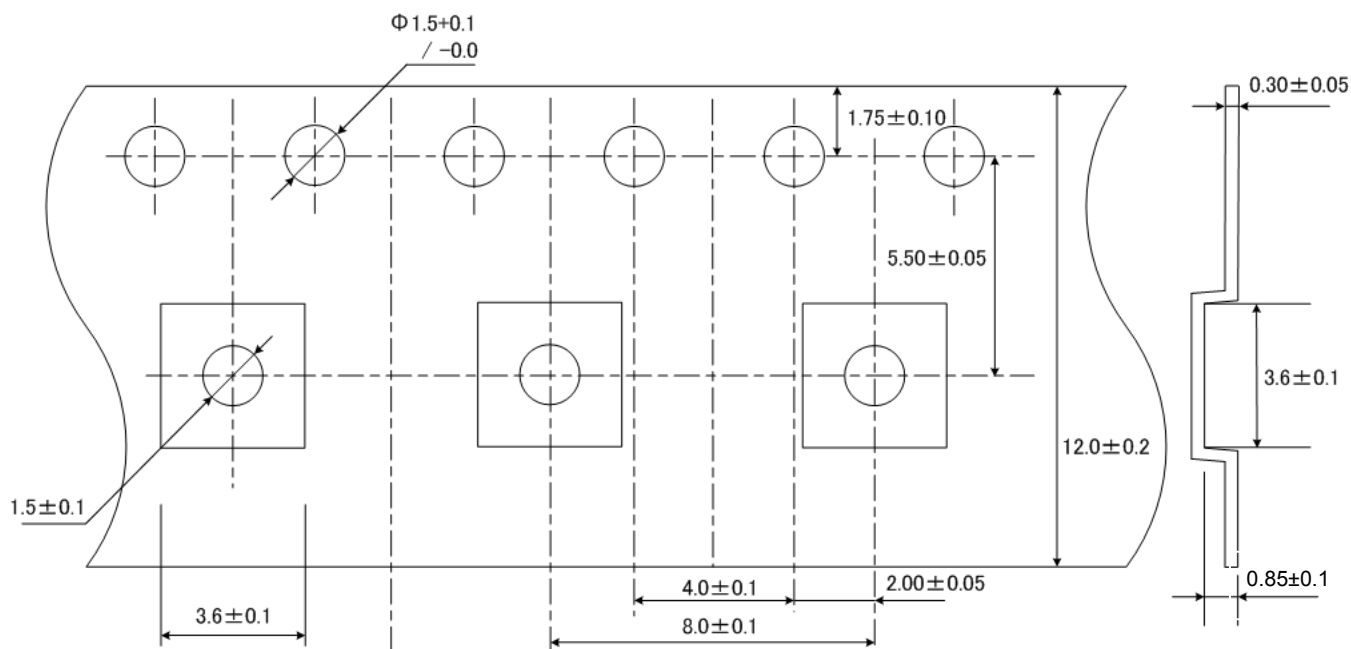
This product is supplied by tape and reel package

5-1. Quantity per reel

6,000pcs

5-2. Minimum order quantity

6,000pcs

5-3. Tape and Reel Packing
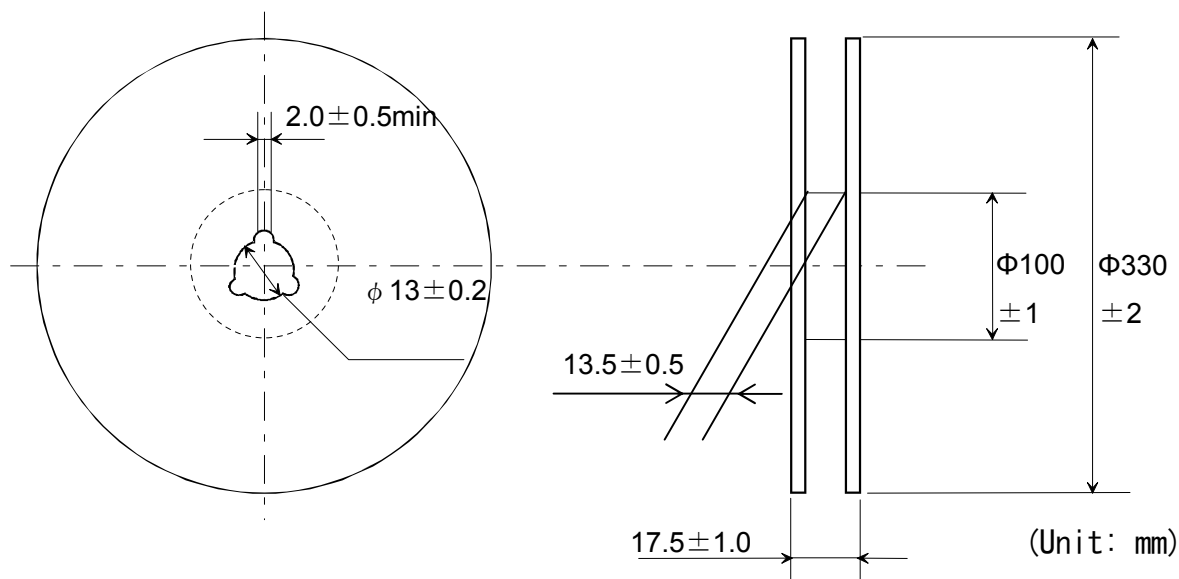
(1) Dimensions of Tape ( Plastic tape )

3

V1.0 January 2016

(2) Dimensions of Reel



2.0±0.5min

φ 13±0.2

13.5±0.5

17.5±1.0

Φ100 ±1

Φ330 ±2

(Unit: mm)

## 6, Contact window

URL : http://www.murata.com/products/rfid/index.html

" MAGICSTRAP®  " is the registered trademark of Murata Manufacturing. Co., Ltd. in Japan.

For any inquiries/queries, please feel free to contact us.

V1.0 January 2016