

# MAGICSTRAP®

By miniaturizing antenna into LTCC (Low Temperature Co-fired Ceramics) substrate, Murata made one of the world smallest RFID tag



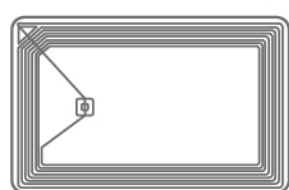
One of the World Smallest RFID Tag



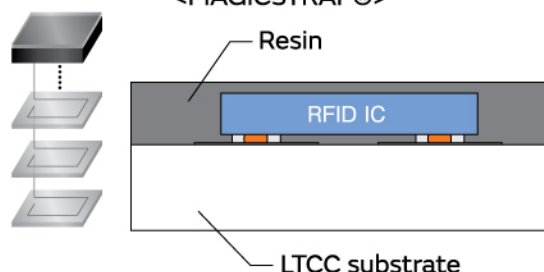
## Features

- Minimizes antenna and matching network into LTCC substrate

<Conventional RFID tag>



<MAGICSTRAP®>



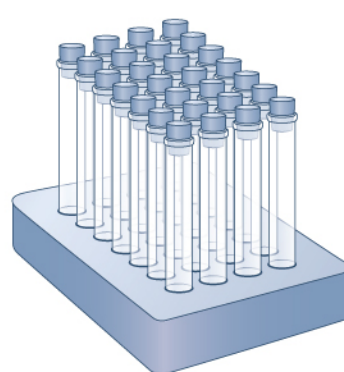
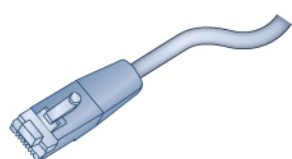
## Specification

P/N	LXMS33HCNG-134	LXMS21NCNH-147	LXMS31ACNA-009-012
Frequency Band	HF	UHF	UHF
Standard	ISO15693	EPC/g C1G2	EPC/g C1G2
Size	3.2x3.2x0.7mm	2.0x1.2x0.6mm	3.2x1.6x0.7mm
Read range*	15mm	5mm	1 ~ 5mm*
Application	Traceability, verification, auto counting, Authentication		Life-cycle traceability of electronics products

\*Read range with antenna

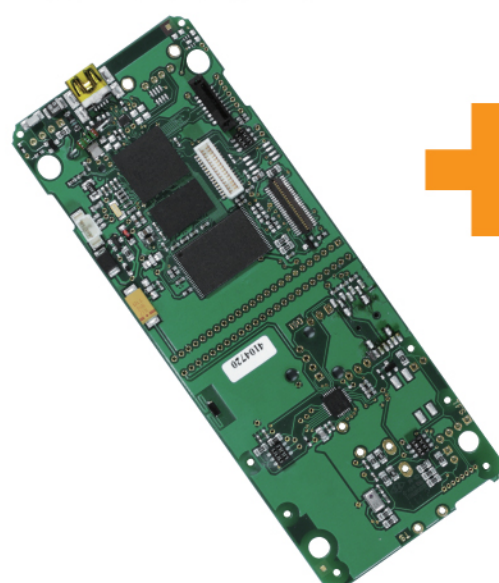
## Application

- Anti-counterfeit
- Verification
- Auto counting
- Tool management
- Authentication

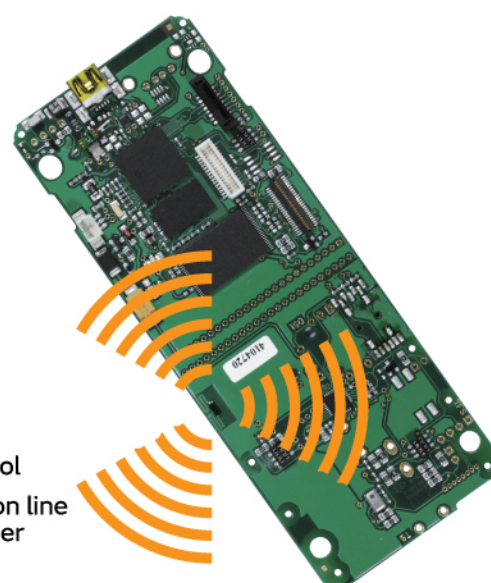


- Life cycle traceability of electronic products

Conventional PCB



Smart PCB with RFID function embedded



- Standard SMT component
- Compatible with EPC/g C1G2 protocol
- Use case 1) data carrier in production line  
2) serial number data carrier

\*MAGICSTRAP® is the trademark of Murata Manufacturing Co., Ltd.

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