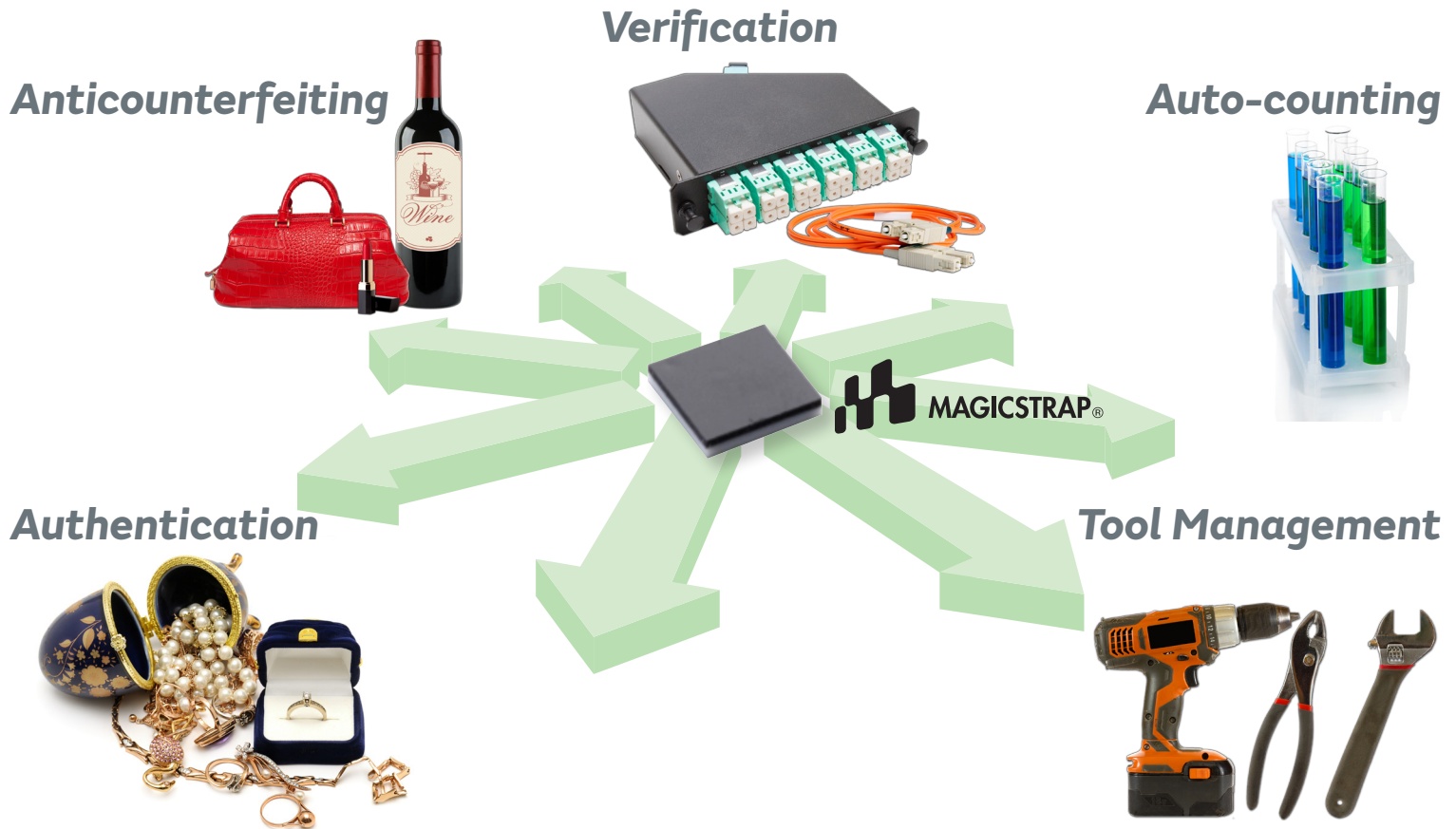
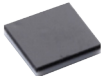


Murata's MAGICSTRAP®

One of the World's Smallest RFID Tags

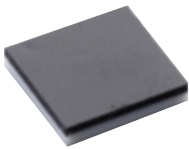
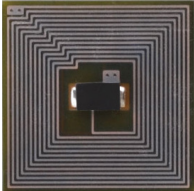
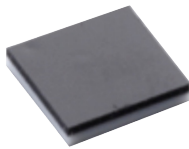
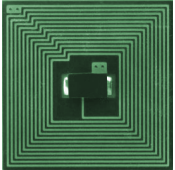


	LXMS21NCNH-147	LXMS33HCNG-134
Appearance		
Standard	ISO/IEC 18000-6 Type C, EPC/g C1G2	ISO15693
Frequency Band	UHF	HF
Size	2.0 x 1.2mm	3.2 x 3.2mm
Thickness	0.6mm max.	0.7mm max.
Read Range	10mm max	50mm max.
IC	NXP G2iM	NXP SLIX



Murata's MAGICSTRAP®

HF Tag Line-up

	LXMS33HCNG-134	LXMSAPHA08-136	LXMS33HCNK-167	LXMSAPHA16-169
Appearance				
Standard	ISO15693		NFC Forum type2 (ISO14443 type A)	
IC	NXP ICODE SLIX		NXP NTAG212	
UID	64bit		56bit	
User memory	896bit		1024bit	
Security	Write protection		Read-only lock 32bit Password protection Originality signature	
Size	3.2mm x 3.2mm	8.3mm x 8.3mm	3.2mm x 3.2mm	6.9mm x 6.9mm
Thickness	0.7mm Max	0.8mm Max	0.7mm Max (TBD)	0.8mm Max (TBD)
Read range (1)	15mm	40mm	12mm	26mm
Read range (2)	50mm	90mm	—	—
Status	MP	Under development	Under development	Under development

Read range (1)

R/W: TI TRF7960 reference board
R/W Antenna: 37x54mm above board
Output power: 200mW

Read range (2)

R/W: ARTFINEX ASI4300
R/W Antenna: AT06 (60x60mm)
Output power: 3W

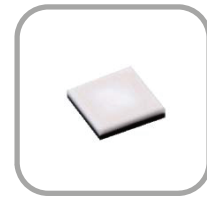


Murata's ultra small HF RFID tag

Using multi-layer technology, Murata's fully compliant ISO15693 HF tag can be adopted to a wide range of objects

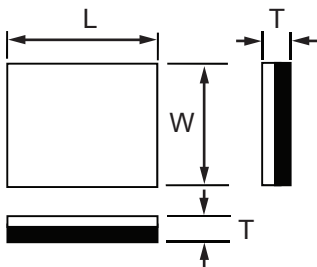
Features

- Ultra miniature package (3.2 x 3.2 x 0.7mm)
- RF antenna is embedded within device
- Easy to implement since no external antenna design is required
- Robust package design – resistance to environmental conditions (high temperature, high humidity)
- ISO 15693 compliant
- NXP ICODE SLIX, 896 bit user memory
- Read range: 15mm (200mW output power, 37 x 54mm antenna)
- Can be attached to a wide range of objects
- Operating temperature -40°C to +85°C
- 100% green material for RoHS compliance



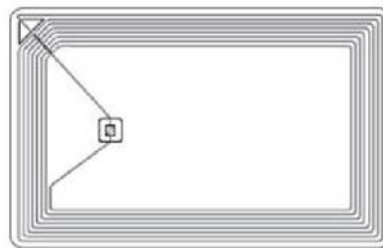
Murata's HF MAGICSTRAP®
P/N – LXMS33HCNG-134

Dimensions (mm)

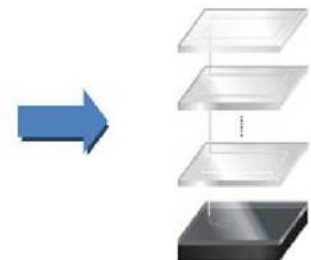


Mark	Dimensions
L	3.2 ± 0.2
W	3.2 ± 0.2
T	0.7 max.

Tag Comparison (not to scale)



Conventional HF Tag design



Murata's MAGICSTRAP®
HF Tag design

