



Manufacturer of RFID tags

# DATASHEET

## LF Universal Tag

Tag Code: L12X171

Universal Tag is ideal for asset tracking in industrial & logistics application. It is available with different Chips & memory Sizes.



### Electrical Specification

Air Interface Protocol	ISO/IEC 11784/85, Read Only Mode
Operational Frequency**	125kHz (134.2kHz on request)
Chip**	EM4200
	128 bit laser programmed ROM (64 & 96 bit option available)
	Several options of data rate and data encoding <ul style="list-style-type: none"> <li>❖ Manchester 32 &amp; 64 RF clock per bit</li> <li>❖ Biphas 32 &amp; 64 RF clock per bit</li> <li>❖ PSK 16 RF clock per bit</li> <li>❖ FSK2 50RF clock per bit</li> </ul>

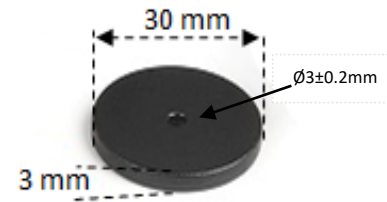
### Physical / Mechanical Specification

Diameter	30 mm	25 mm	20 mm
Thickness	3.0 mm	3.0 mm	3.0 mm
Weight	2.0 gm	1.3 gm	1.0 gm
Tag Code	L123171	L122171	L121171
Encasement	PC/ ABS		
Color**	Black		
Quality Assurance	100% reader tested		

## Environmental Resistance

Operating temperature	-40°C to +80°C
Storage temperature	-40°C to +80°C
Ingress protection rating	IP66
Attachment***	Riveting Screw / Adhesive
Applicable surface	Metal, Wooden, Plastic

## Dimensions



## Chemical Resistance

Resistant to continuous exposure to salt water for 2 hours

Resistant to continuous exposure to motor oil for 2 hours

Additionally, abrasion resistant against HCL and IPA

## Additional Services

Pre-encoding	On request
Customization***	Logo / text printing on request

\* Actual Read range may vary depending upon the reader and environmental factor

\*\* Other on request

\*\*\* Available as an option at extra cost

## Order Information

L12X171	With EM4200
L12X131	With EM4305
L12X055	With NXP HitagS 256

### Omnia Technologies Pvt. Ltd.

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