imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





HF MAGICSTRAP[®] Data Sheet LXMSAPHA17-176

1, General Descriptions

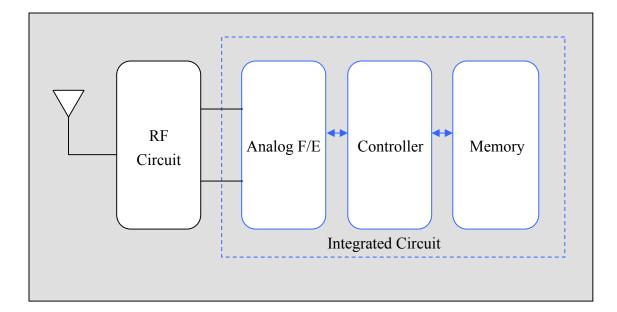
HF MAGICSTRAP[®] is a small size HF band RFID IC module, including embedded antenna This complies with ISO14443/NFC Forum Type2 standard. It can be used globally with high performance even in small form factor.

[Features]

- ISO14443/NFC Forum Type2 Compliance
- Operating frequency of 13.56MHz
- Embedded antenna
- Using NXP NTAG213, 1152bit user memory
- Small package (8.3X8.3X0.7mm typ.)
- Completely green material and RoHS Compliant.
- Bi-adhesive on the back size.

2, Block Diagram

Figure.1 shows block diagram.



All Rights Reserved, Copyright© Murata Manufacturing Co., Ltd. Tentative/Confidential

V1.2 January 2016



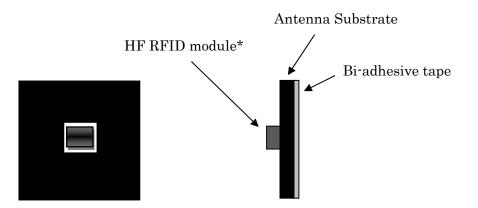


HF MAGICSTRAP[®] Data Sheet LXMSAPHA17-176

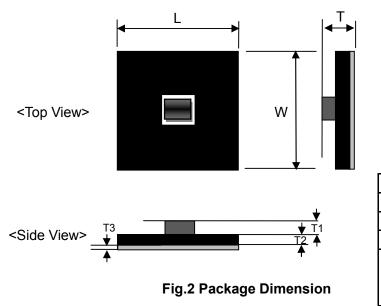
3, Mechanical Information

3-1. Construction and Dimension

[Construction]



[Dimension]



[mm]

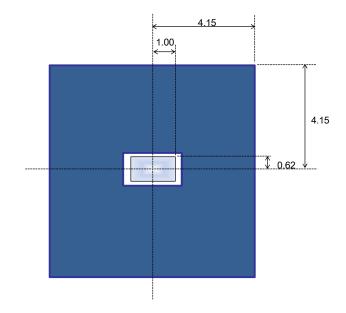
Mark		Dimensions
L		8.3±0.2
W		8.3±0.2
Т		0.70 typ. / 0.80 max
	T1	0.45 typ.
	T2	0.15 typ.
	Т3	0.10 typ.

All Rights Reserved, Copyright© Murata Manufacturing Co., Ltd. Tentative/Confidential



HF MAGICSTRAP[®] Data Sheet LXMSAPHA17-176

[Drawing]



4, Electrical performance

4-1.Reading range (reference only)

25mm*

*Reader/Writer : TI TRF7960 Reference Board Reader/Writer antenna : 37x54mm on TI TRF7960 Reference Board Output Power of Reader/Writer : 200mW

5, Operating Temperature

-40degC ~ +70degC

6, RoHS compliance

This product is compliant with RoHS directive

All Rights Reserved, Copyright© Murata Manufacturing Co., Ltd. Tentative/Confidential

3

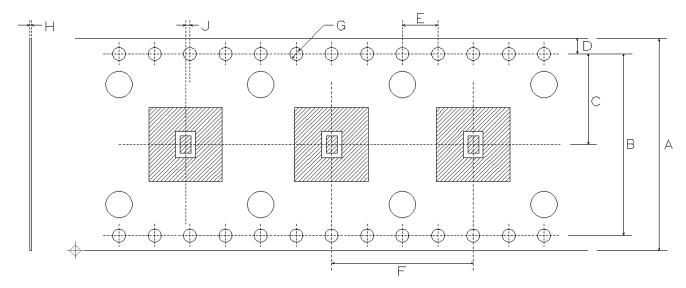
V1.2 January 2016



HF MAGICSTRAP[®] Data Sheet LXMSAPHA17-176

7, Packing Information

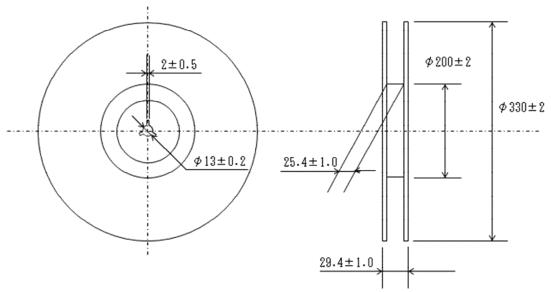
(1)Tag position on carrier sheet



Mark	Dimenion	Mark	Dimenion
Α	24.0 ± 0.3	F	16.0 ± 0.4
В	20.5 ± 0.1	G	ϕ 1.5 ± 0.1
С	10.25 ± 0.5	Н	0.08 ± 0.03
D	1.75 ± 0.1	J	0.0 ± 0.5
Е	4.0 ± 0.1		

1 1	
Unit :	

(2)Dimension of Reel

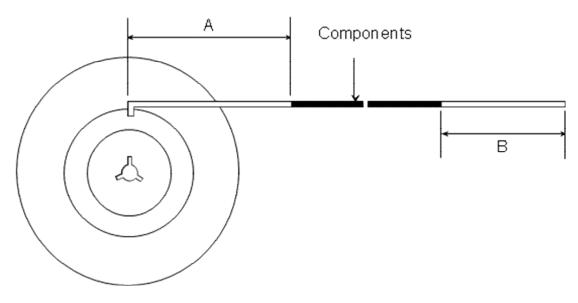


All Rights Reserved, Copyright© Murata Manufacturing Co., Ltd. Tentative/Confidential



HF MAGICSTRAP[®] Data Sheet LXMSAPHA17-176

(3)Leader and Tail tape



Mark	Items	Minimum length (mm)
А	Tail	800-900
В	Leader no cover tape	1900-2000

(4)Packaging unit : 2500 pcs/Reel

(5)Material : Base tapePET Reel.....Plastic

8. 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.

All Rights Reserved, Copyright© Murata Manufacturing Co., Ltd. Tentative/Confidential