



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!



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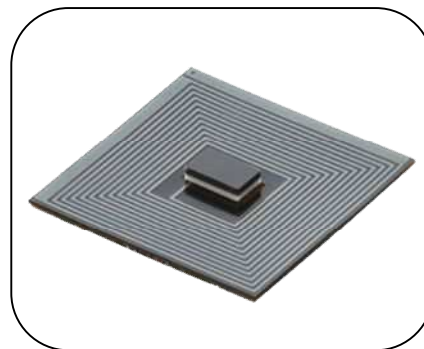
HF MAGICSTRAP® Data Sheet

LXMSAPHA08-136



1. General Descriptions

HF MAGICSTRAP® is a small size HF band RFID IC module, including embedded antenna. This complies with ISO15693 standard. It can be used globally with high performance even in small form factor.

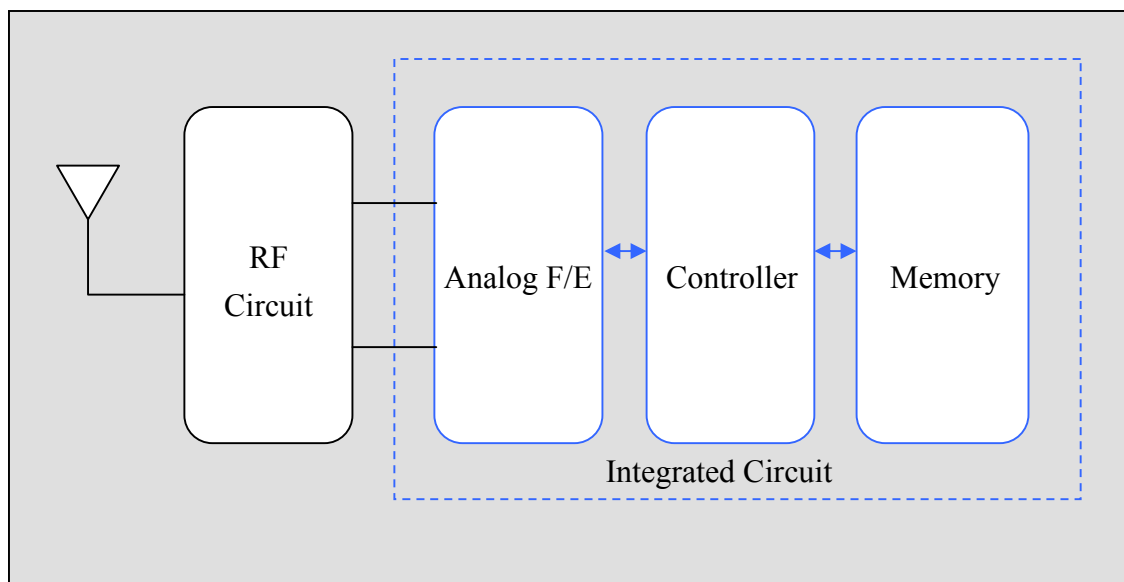


[Features]

- ISO15693 Compliance
- Operating frequency of 13.56MHz
- Embedded antenna
- Using NXP ICODE SLIX (SL2S2002FTB), 896bit user memory
- Small package (8.3X8.3X0.7mm typ.)
- Completely green material and RoHS Compliant.
- Bi-adhesive on the back size to stick best on Polycarbonate material

2. Block Diagram

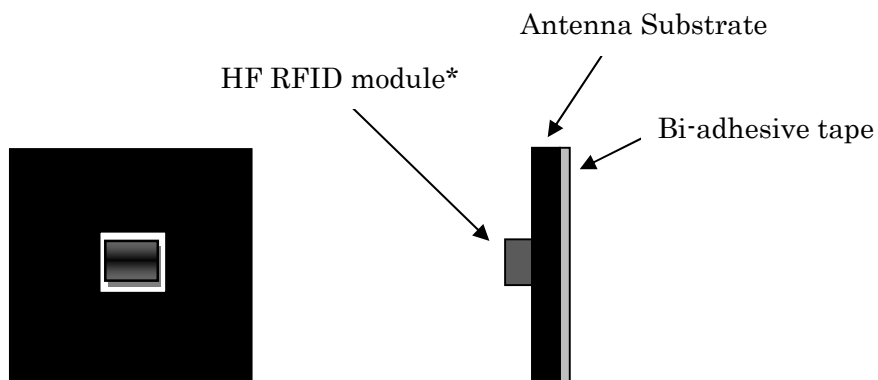
Figure.1 shows block diagram.



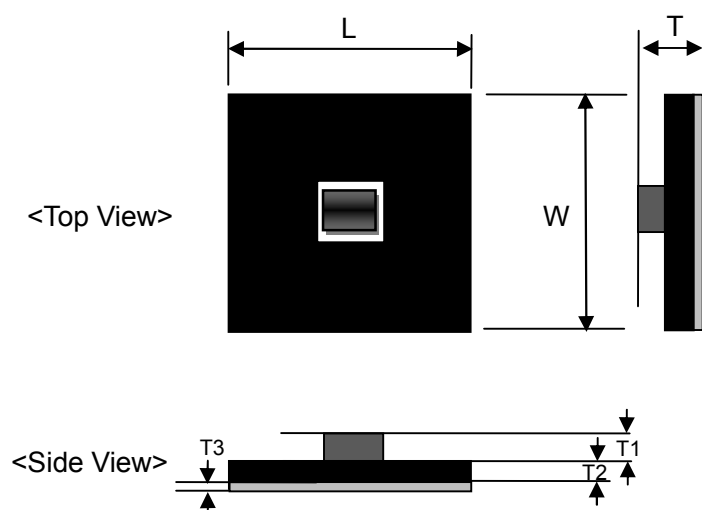
3. Mechanical Information

3-1. Construction and Dimension

[Construction]



[Dimension]



[mm]

Mark	Dimensions
L	8.3 ± 0.2
W	8.3 ± 0.2
T	0.70 typ. / 0.80 max
T1	0.45 typ.
T2	0.15 typ.
T3	0.10 typ.

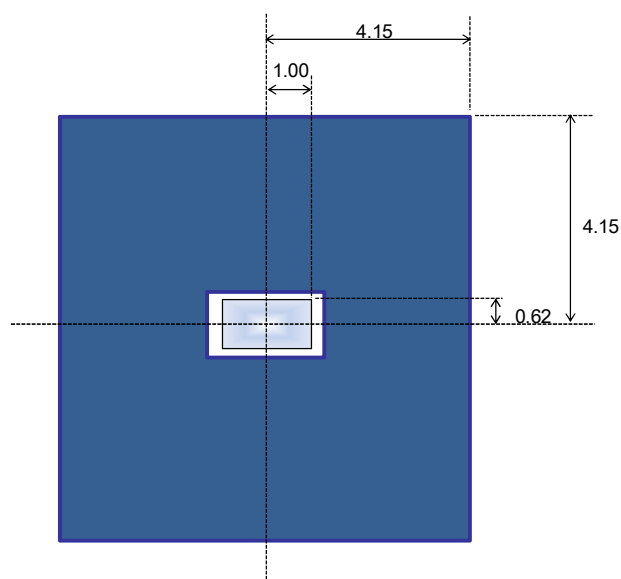
Fig.2 Package Dimension

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[Drawing]



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3-2. Property of bi-adhesive tape

Supplier : Teraoka

P/N : 776P

Adhesive strength :

-18.38 [N/W.25mm]

Material composition :

-Base : nonwoven fabric

-Adhesive : Acrylic

4. Electrical performance

4-1. Reading range (reference only)

40mm*

*Reader/Writer : TI TRF7960 Reference Board

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

Output Power of Reader/Writer : 200mW

4-2. ESD performance (reference only)

Passed +/-2kV (contact discharge), +/-4kV (air discharge)*

*IEC61000-4-2 testing

5. Operating Temperature

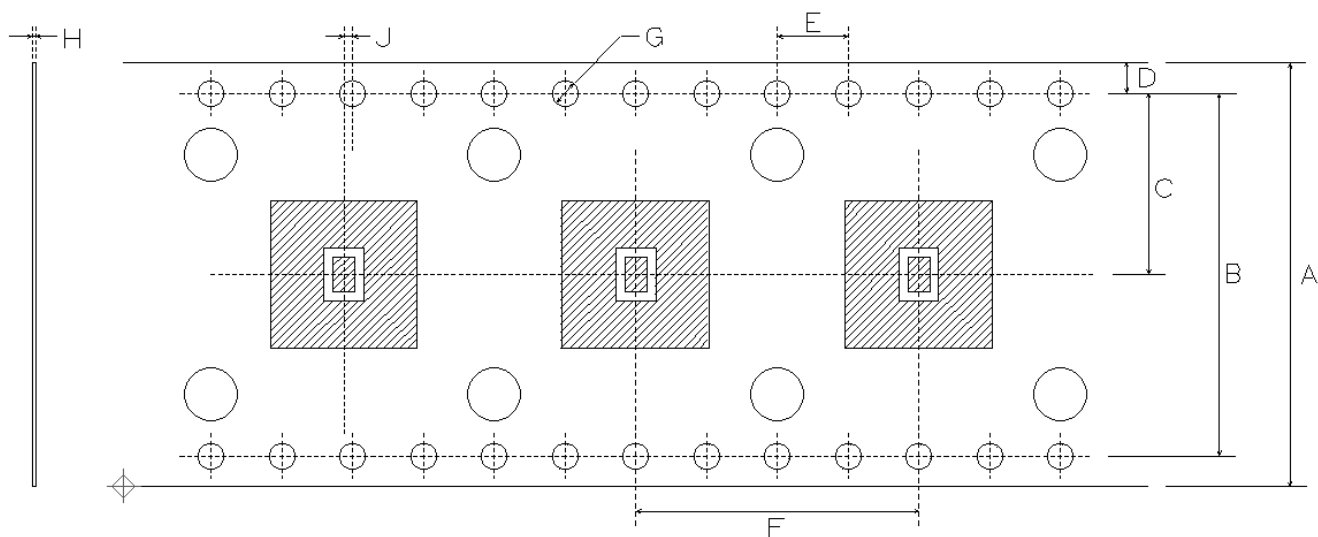
-40degC ~ +70degC

6. RoHS compliance

This product is compliant with RoHS directive

7. Packing Information

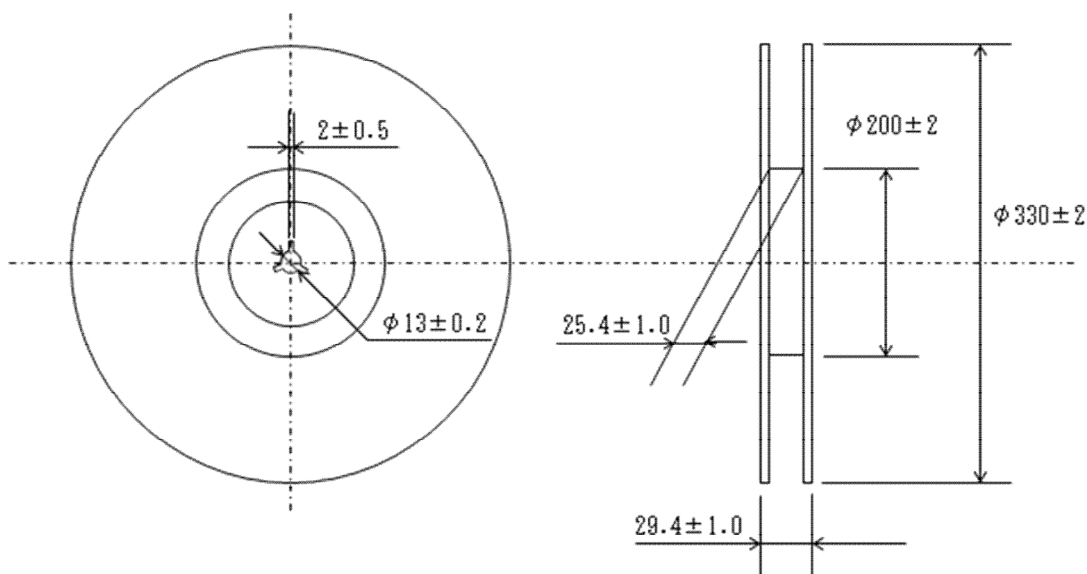
(1) Tag position on carrier sheet



Unit : [mm]

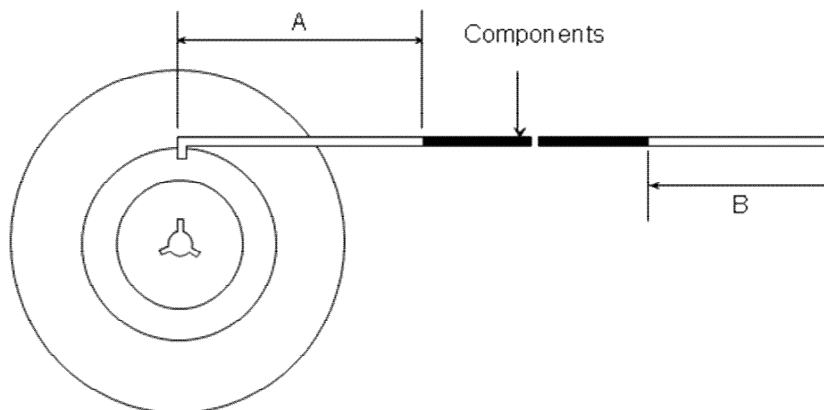
Mark	Dimension	Mark	Dimension
A	24.0±0.3	F	16.0±0.4
B	20.5±0.1	G	φ1.5±0.1
C	10.25±0.3	H	0.08±0.03
D	1.75±0.1	J	0.0±0.3
E	4.0±0.1		

(2) Dimension of Reel



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(3)Leader and Tail tape



Mark	Items	Minimum length (mm)
A	Tail	800-900
B	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>

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