

UHF RFID Short Range Antenna Data sheet

LXRFZZUCCA-036-EVAL(JP/US) /

LXRFZZUCCA-037-EVAL(EU)

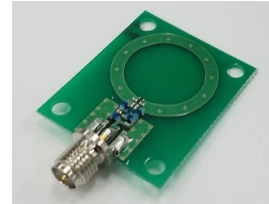


Scope

This data sheet, is applied to UHF short range antenna, magnetic loop antenna.

-Specific applications: To evaluate Murata's UHF RFID tag products.

-Unsuitable Application: It is not allowed to install on/in any products which are released to the market.



1. General Descriptions

LXRFZZUCCA-036-EVAL(JP/US) and LXRFZZUCCA-037-EVAL(EU) are UHF short range antenna (Magnetic loop antenna).

[Features]

- Optimized antenna design for Murata tag
- SMA connection (reverse polarity)
- RoHS compliance

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< Specification is subject to change without notice >

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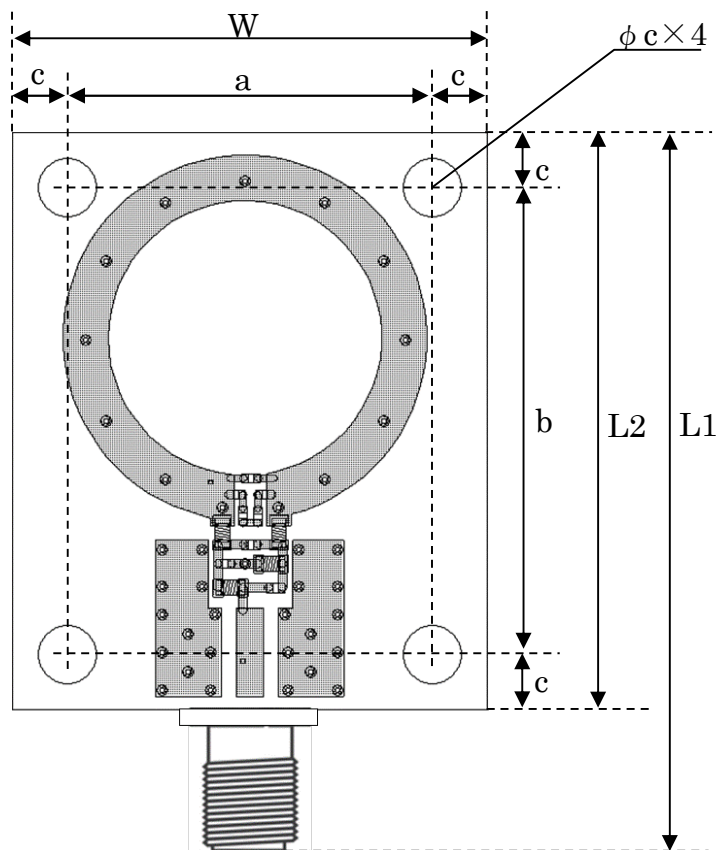
LXRFZZUCCA-036-EVAL(JP/US) / LXRFZZUCCA-037-EVAL(EU)



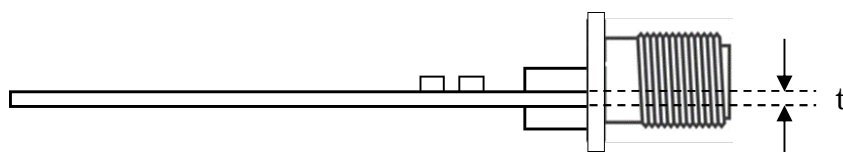
2. Mechanical Information

[Dimension]

<Top View>



<Side View>



Mark	Size	Mark	Size	Mark	Size
L1	39.1 +/- 2.0	b	25.5 +/- 0.2	t	0.8 +0.2 / -0.1
L2	31.5 +/- 0.3	c	3.0 +/- 0.2		
W	26.0 +/- 0.3	ϕc	3.2 +/- 0.1		
a	20.0 +/- 0.2				

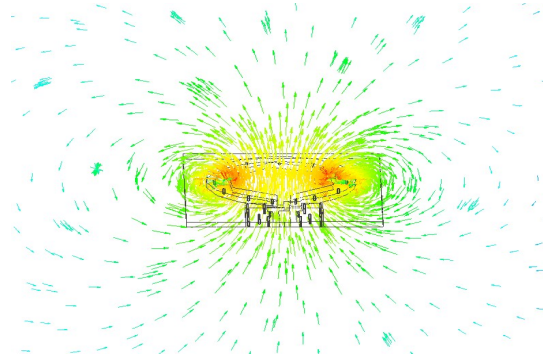
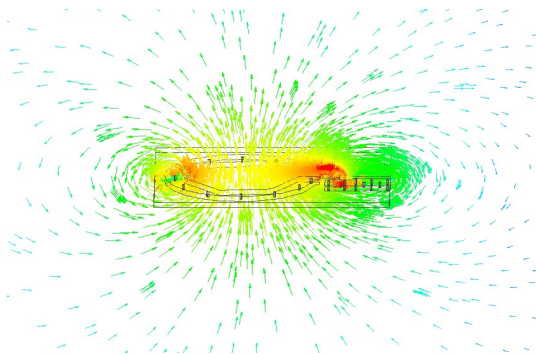
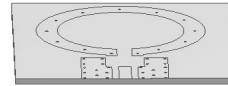
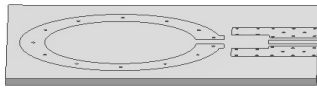
Connector type : RP-SMA(female)

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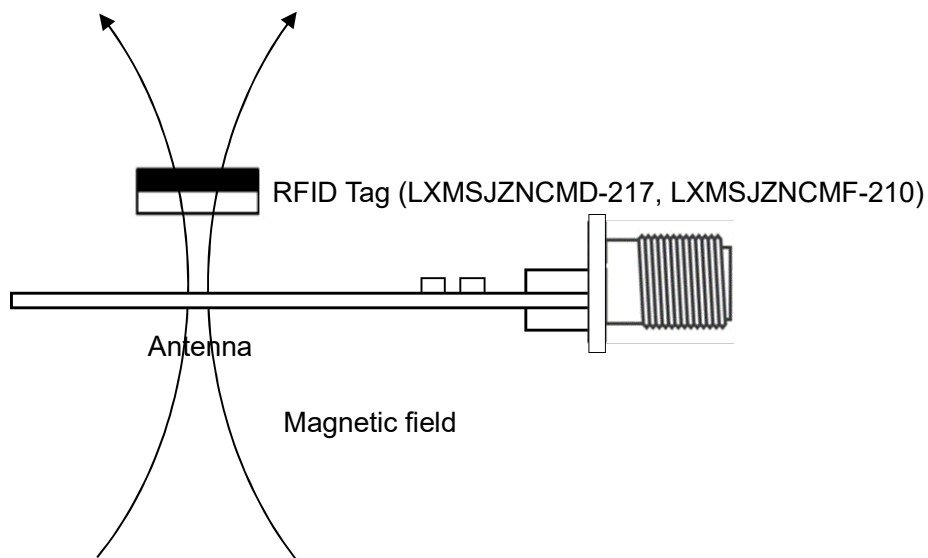
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3. Characteristics

3-1. Magnetic field



Please place the RFID tag at the position where it interlinks with the antenna magnetic field.



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3-2. Ratings

3-2-1. Limiting values

Parameter	Symbol	Limiting values		Unit
		Min	Max	
Storage temperature	T _{STG}	-40	+85	°C

3-2-2. Operation condition

Parameter	Symbol	Min	Typ	Max	Unit
Ambient Temperature	T _{amb}		25		°C

3-3. Electrical Characteristics

LXRFZZUCCA-036-EVAL (JP/US)

Parameter	Min	Typ	Max	Unit
Return Loss (@920MHz)			-10	dB
Gain		-16		dBi

LXRFZZUCCA-037-EVAL (EU)

Parameter	Min	Typ	Max	Unit
Return Loss (@866MHz)			-10	dB
Gain		-16		dBi

4. Contact window

URL: <http://www.murata.com/en-global/products/rfid>

Email: magicstrap@murata.com

For any inquiries, please feel free to contact us.

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NOTICE

1. Storage Conditions:

To avoid damaging, be sure to observe the following points.

- Store products where the ambient temperature is 15 to 35 °C and humidity 45 to 75% RH.

(Packing materials, In particular, may be deformed at the temperature over 40 °C.).

- Store products in non corrosive gas (Cl₂, NH₃, SO₂, NO_x, etc.).
- Stored products should be used within 6 months of receipt.

2. Handling Conditions:

Be careful in handling or transporting products because excessive stress or mechanical shock may break products.



Note:

WE DISCLAIM ANY LOSS AND DAMAGES ARISING FROM OR IN CONNECTION WITH THE PRODUCTS INCLUDING BUT NOT LIMITED TO THE CASE SUCH LOSS AND DAMAGES CAUSED BY THE UNEXPECTED ACCIDENT, IN EVENT THAT (i) THE PRODUCT IS APPLIED FOR THE PURPOSE WHICH IS NOT SPECIFIED AS THE SPECIFIC APPLICATION FOR THE PRODUCT