



April 3, 2023

FCC ID: MOZG2C2J2S

To whom it may concern,

We, UL Japan, Inc, hereby declare that Electronic Key, model: G2C2J2S (FCC ID: MOZG2C2J2S) of TOKAI RIKA CO., LTD. is exempt from RF exposure SAR evaluation because the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula according to the Code of Federal Regulation title 47 section 1.1307(b)(3)(i)(B). This method is used at separation distances d (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive) for single RF sources. P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d / 20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz}$$

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

When the minimum separation distance is shorter than 0.5 cm, 0.5 cm is applied.

The SAR-Based exemption threshold is calculated as below.

P_{th} (mW):	36.71	Conducted Power *	(dBm)	2.10
f (GHz):	0.3125		(mW)	1.63
$ERP_{20 \text{ cm}}$ (mW):	637.50	Antenna Gain (dBi)		-28.19
d (cm):	0.5	EIRP (dBm)		-26.09
		ERP	(dBm)	-28.23
			(mW)	0.01

The Maximum burst-averaged power or ERP whichever greater is 1.7 mW, so RF Exposure is exemption. (Rounded up to two decimals place)

* Conducted Power applies the specification output power (maximum) of the customer's declaration.

Thank you for your attention to this matter.

Tsubasa Takayama
Leader