

June 10, 2025

FCC ID: E4EV640HAM11EV5

To whom it may concern,

We, UL Japan, Inc, hereby declare that RFID Amplifier Unit, model: V640-HAM11-ETN-V5 (FCC ID: E4EV640HAM11EV5) of OMRON Corporation is exempt from RF exposure SAR evaluation as its output power meets the exclusion limits stated in KDB 447498D01(v06).

KDB 447498D01(v06) has the following exclusion for portable devices:

The SAR test exclusion thresholds for below 100 MHz at test separation distances ≤ 50 mm are determined by step c) 1):

- c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion:
- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100 / f(\text{MHz}))]$
 - 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$

Numeric exemption threshold:

P_{th} step c) [mW]:	2223.98
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Radio specification and use-case for this device are below:

f [MHz]:	0.1342
d [mm]:	200 *1)
Maximum average output power [mW]:	200

f [MHz]: Operating frequency

d [mm]: Minimum separation distance

Maximum average output power [mW]: burst-average power

This is less than P_{th} step c), so SAR test is exemption for this device.

*1) Although the separation distance from the antenna is 30 cm in the specifications of the product, it was calculated as 20 cm.

Even taking into account the tolerance, this device can be satisfied with the limits.

Thank you for your attention to this matter.



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Engineer