



October 16, 2013

UL Japan, Inc.  
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FCC ID: EW4W092

To whom it may concern,

We, UL Japan, Inc, hereby declare that Wireless LAN module, model: W092 (FCC ID:EW4W092 ) of MITSUMI ELECTRIC CO., LTD is exempt from RF exposure SAR evaluation as its output power meets the exclusion limits stated in FCC Part 2 §2.1093.

KDB 447498D01(V05) has the following exclusion for portable devices:

The 1g and 10g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})]$

$\cdot [\sqrt{f(\text{GHz})}] \leq 3.0$

for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

$\cdot f(\text{GHz})$  is the RF channel transmit frequency in GHz

$\cdot$  Power and distance are rounded to the nearest mW and mm before calculation

$\cdot$  The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

This device has  $f = 2.462$  GHz and the maximum tune-up tolerance limit was 15.85mW.

The minimum separation distance for this device can be calculated by the following formula.

$15.85\text{mW}[\text{maximum tune-up tolerance limit}] / 3[1\text{g SAR test exclusion threshold}] * \sqrt{2.462} = 8.29\text{mm}$   
[minimum separation distance]

If the minimum separation distance is more than 8.29mm, no SAR is required.

Thank you for your attention to this matter.

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WiSE Japan  
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UL Japan, Inc.