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Report Number: 60.790.16.039.01

Model No.: mcMod120

Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v06 section 4.3.1,

>> The 1-g SAR test exclusion thresholds, for 100MHz to 6GHz, at test separation distances ≤ 50 mm are determined by:

Power at 2402MHz = 0.7381 mW EIRP Power at 2440MHz = 0.5359 mW EIRP Power at 2480MHz = 0.3829 mW EIRP

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[(0.7381 \text{ mW}) / (5 \text{ mm})] \cdot [\text{sqrt} (2.402 \text{ GHz})] = 0.057197 \text{ which is } \le 3.0 \text{ for } 1\text{-g SAR}. [(0.5359 \text{ mW}) / (5 \text{ mm})] \cdot [\text{sqrt} (2.440 \text{ GHz})] = 0.041855 \text{ which is } \le 3.0 \text{ for } 1\text{-g SAR}. [(0.3829 \text{ mW}) / (5 \text{ mm})] \cdot [\text{sqrt} (2.480 \text{ GHz})] = 0.030149 \text{ which is } \le 3.0 \text{ for } 1\text{-g SAR}.
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Therefore the device is exempt from stand-alone SAR test requirements.

- >> The fundamental frequency of the EUT is 2402MHz-2480MHz, the test separation distance is < 50mm. (Manufacturer specified the separation distance is: less than 5mm)
- >> The power of EUT measured is:
- For 2402MHz: 0.7381mW = 10 log (0.7381) dBm ~ -1.32dBm For 2440MHz: 0.5359mW = 10 log (0.5359) dBm ~ -2.71dBm
- For 2480MHz: 0.3829mW = $10 \log (0.3829) dBm \sim -4.17dBm$