

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	R/C CAR
Test Model	9368
Series Model	9920C, 9099-20A, 9099-20B, 9920E, 9920F, 9920L, 9920H, 9920M, 9930, 9930A, 9930B, 9930L(A), 9930L(B), 9920W, 9920W-A, 9920W-B, 9920W-C, 9920W-E, 20A, 20B, Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q9A, Q9B, Q10, Q11, Q12, Q13, Q033, Q035, Q36, 9950, 9950B, 9960, 9961, 9370, 9993, 9993W, 999919, 9999-19, 9996, 9996W, 9998, 9999, 9365, 9366, 9365W, 9366W, 9369, 9380, 9381, 9382, 9962, 9963, 9965, 9966, 9968, 9969, 9310, 9311, 9312, 9313, 9315, 9316, 9318, 9319, 9320, 9321, 9322, 9323, 9325, 9326, 9328, 9329, 9330, 9331, 9332, 9333, 9335, 9336, 9338, 9339, 9350, 9351, 9352, 9353, 9355, 9356, 9358, 9359, 9360, 9361
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2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 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 ≤ 7.5 for 10-g extremity SAR.

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

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

3. CALCULATION

$$P_t = 1.040\text{dBm} = 1.27\text{mW}$$

The value of the Maximum output power P_t is referred to the test report of the CFR47

\$15.247.

The result for RF exposure evaluation $\text{SAR} = (1.27\text{mW} / 5\text{mm}) \cdot [\sqrt{2.415(\text{GHz})}] = 0.39 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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