

RF Exposure Statement

No.:23BE0140-HO-1

Applicant : NEC System Integration & Construction, Ltd.
Type of Equipment : Radio Equipment
Model No. : HX68-C
FCC ID : RJGHX68C

Radio frequency radiation exposure evaluation statement:

NEC System Integration & Construction, Ltd. declares that Model: HX68-C complies with the definition of “Private Land Mobile Radio Services ” indicated in FCC 90 and complies with the limits for MPE for the General Population/Uncontrolled Exposure at 55 cm separation between the antenna and the body of user or nearby persons (Table 1(B) of FCC 1.1310).

MPE Calculation:

The Table 1(B) of FCC 1.1310 specifies the limits for MPE (Maximum Permissible Exposure) for General Population/Uncontrolled Exposure.

The power density shall be below 0.302 mW/cm^2 for frequencies from 453.0375MHz to 453.9875MHz.

The power density S is calculated by the following equation:

$$S = (P \times G) / (4\pi R^2)$$

Where, S = Power Density in mW/cm^2 at 55 cm apart from the antenna

P = 10000 mW (Maximum Conducted Power)

G = 1. (Monopole Antenna Gain ;equal to 1.)

R = 55 cm

For : HX68-C $S = 0.263066 \text{ mW/cm}^2$

Notes in the User’s Manual:

IMPORTANT:

To meet the FCC's RF Exposure Guidelines, model HX68-V should be used so that there is at least 55 centimeters of separation between the body of user or nearby persons and the antenna.

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