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Kar-Tech, Inc.
Vera Remote Transmitter Module
Model: VRTS
FCC ID: P4U-VRTS

The modular transmitter must comply with any applicable RF exposure requirements.

The maximum measured power output is 12.3 dBm (17 mW), the maximum antenna gain is 3 dBi = numeric gain 1.995. The maximum permissible exposure is defined in 47 CFR 1.1310 as 0.6 mW/cm².

The distance from the EUT's transmitting antenna where the exposure level reaches the maximum permitted level is calculated using the general equation: $S = P \cdot G / 4\pi R^2$

$S_{max} = 0.6 \text{ mW/cm}^2$, $P = 17 \text{ mW}$, $G = \text{linear power gain relative to the isotropic radiator} = 1.995$ (numeric gain), $R = \text{distance in cm}$

Solving for R, the 0.6mW/cm² limit is reached in a distance of 2.1 cm to the transmitting antenna.

The module has to be integrated in a way that the minimum distance of 2.1 cm is ensured.