H.B. Compliance Solutions

Maximum Permissible Exposure Statement

For the

Stanley Security Solutions

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Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

S = PG/4πR2

Where,

S = power density (mW/cm2)
P = output power at the antenna terminal (mW)
G = gain of transmit antenna (numeric)
R = distance from transmitting antenna (cm)

Maximum peak output power at antenna input terminal = <u>13.43 (dBm)</u>
Maximum peak output power at antenna input terminal = <u>22.0 (mW)</u>
Antenna gain (typical) = <u>-9.0(dBi)</u>
Maximum antenna gain = <u>1.0(numeric)</u>
Prediction distance = <u>20 (cm)</u>
Prediction frequency = <u>927 (MHz)</u>
MPE limit for uncontrolled exposure at prediction frequency = <u>0.618 (mW/cm^2)</u>
Power density at prediction frequency = <u>0.00437689 (mW/cm^2)</u>

To solve for the minimum mounting distance required;

R = √ (PG/4πS)

R = √ (22 x 1.9 / 4π x 0.00437689) = <u>20 cm</u> (Based on continuous transmission)

END OF TEST REPORT