H.B. Compliance Solutions

Maximum Permissible Exposure Statement

For the

Raveon Technologies Corporation

DART Data Modem M80-EA2

February 26, 2016

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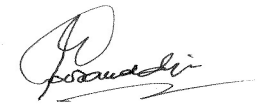

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Cert # ATL-0062-E

Prediction of MPE limit at a given distance

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

$S = PG/4\pi R^2$

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 = 34.84 (dBm)
Maximum peak output power at antenna input terminal = 3047.8 (mW)
Antenna gain (typical) = 0 (dBi)
Maximum antenna gain = 1.0 (numeric)
Prediction distance = 49 (cm)
Prediction frequency = 854 (MHz)
MPE limit for uncontrolled exposure at prediction frequency = 0.569 (mW/cm^2)
Power density at prediction frequency = 0.101017 (mW/cm^2)

To solve for the minimum mounting distance required;

$R = \sqrt{(PG/4\pi S)}$

$R = \sqrt{(3047.8 \times 6.3 / 4\pi \times 0.101017)}$ = 49 cm (Based on continuous transmission)

Maximum peak output power at antenna input terminal = 34.84 (dBm)
Maximum peak output power at antenna input terminal = 3047.8 (mW)
Antenna gain (typical) = 6 (dBi)
Maximum antenna gain = 3.98 (numeric)
Prediction distance = 100 (cm)
Prediction frequency = 854 (MHz)
MPE limit for uncontrolled exposure at prediction frequency = 0.569 (mW/cm^2)
Power density at prediction frequency = 0.096532 (mW/cm^2)

To solve for the minimum mounting distance required;

R = √ (PG/4πS)

R = √ (3047.8 x 6.3 / 4π x 0.096532) = 100 cm (Based on continuous transmission)

END OF TEST REPORT