H.B. Compliance Solutions

Maximum Permissible Exposure Statement

For the

AFLglobal

FOCIS LTNG

December 11, 2018

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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 = 19.17 (dBm)
Maximum peak output power at antenna input terminal = 80.60 (mW)
Antenna gain (typical) = 3.0(dBi)
Maximum antenna gain = 2.0(numeric)
Prediction distance = 20 (cm)
Prediction frequency = 2462 (MHz)
MPE limit for uncontrolled exposure at prediction frequency = 1 (mW/cm^2)
Power density at prediction frequency = 0.032070 (mW/cm^2)

To solve for the minimum mounting distance required;

R = √ (PG/4πS)

R = √ (80.60 x 2.0 / 4π x 0.032070) = 20 cm (Based on continuous transmission)

END OF TEST REPORT