

Xecom Incorporated

FHSS Module 902 - 928 MHz Digital Radio

FCC ID#: DWE-XE900SL10

Maximum Permissible Exposure (Part 15.247(b)(4))

Prediction of MPE limit at a given distance

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

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	3.1 (dBm)
Maximum peak output power at antenna input terminal:	2.02 (mW)
Antenna gain(typical):	0.0 (dBi)
Maximum antenna gain:	1.00 (numeric)
Prediction distance:	20 (cm)
Prediction frequency:	915 (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.61 (mW/cm ²)
Power density at prediction frequency:	0.00040 (mW/cm ²)
Maximum allowable antenna gain:	31.81 (dBi)
Margin of Compliance at 20 cm	= 31.81 dB