

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

Mode: AMPS

Maximum peak output power at antenna input terminal: 29.17 (dBm)

GX820

Maximum peak output power at antenna input terminal: 826.0 (mW)

Antenna gain(typical): 3 (dBi)

Tuf Duck EXE-821-SM

Maximum antenna gain: 1.995 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 836.49 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.55766 (mW/cm²)

Power density at prediction frequency: 0.328 (mW/cm²)

Maximum allowable antenna gain: 5.3 (dBi)

Margin of Compliance: 2.3

CalAmp Corporation

GSM/GPRS Modem Module