

Ptx := 17	TX power [dBm]	CM09XTUS
Ga := 2.0	Antenna gain [dBm]	W1030 Pulse Antennas
d := 0.2	Distance [m]	

EiRP := Ptx + Ga      [dBm]

$$eIrp := 10^{\frac{EiRP-30}{10}}$$
      [W]

$$PD(d) := \frac{eIrp}{4\pi \cdot d^2}$$
      [W/m^2]

$$pd(d) := PD(d) \cdot \frac{1000}{10000}$$
      [mW/cm^2]

pd(0.2) = 0.016      [mW/cm^2]

limit power density: 1 mW/cm^2