

MPE Estimate
FCC ID:PS6R3001-A1

Select the proper band and input the desired f to the corresponding cell next to it	Input desire f in this column [one cell only]	Controlled Envi Ave 6 min	Uncontrolled Envi Ave 30 min
Freq Band (MHz)	Actual f [MHz]	mW/cm2	mW/cm2
1500-100000	5800	5.0	1.0

Max RF Power	TX Antenna Gain	MPE	Antenna Type
Power [dBm]	Gain [dBi]	Safe Distance [cm]	
27.0	28.0	158.6	Dish Antenna
27.0	23.5	94.5	Panel Antenna
27.0	17.0	44.7	Integral Anenna
27.0	16.0	39.8	Panel/Sector 90 deg.
27.0	14.0	31.7	Sector 120 deg.

Basis of Calculations:

$$E^2/3770 = S, \text{ mW/cm}^2$$

$$P_{\text{watts}} * G_{\text{gain}} = 10^{(P_{\text{dBm}} - 30 + G_{\text{dBi}})/10}$$

$$E, \text{ V/m} = (P_{\text{watts}} * G_{\text{gain}} * 30)^{.5} / d, \text{ meters}$$

$$d = ((P_{\text{watts}} * G * 30) / (3770 * S))^{.5}$$