

RF Exposure

This calculation is based on the highest EIRP possible from the EUT considering maximum power and antenna gain.

The highest output power of the EUT is 457 mW and the gain of the antenna is 0 dBi

1 MINIMUM SEPARATION DISTANCE PER OET 65

The following information provides the minimum separation distance for the EUT, as calculated from **FCC OET 65 Appendix B, Table 1B** "Guidelines for General Population/Uncontrolled Exposure"

Transmitter	MHz	Max Power dBm	Max Ant Gain dBi	Duty Cycle %	EIRP W	(S) GP Limit mW/cm^2	MSD Meters	MPE Ratio from 20 cm	Notes
Part 90	460	26.6	0	100.0	0.4571	0.307	0.1089	0.545	Peak
Total MPE Ratio									0.545

Notes on the above table:

- a. S is the power density General Population Limit from OET 65 table 1B
- b. MSD (Minimum Separation Distance) = $((EIRP \cdot 30) / (3770 \cdot S))^{0.5}$

NOTE: For mobile or fixed location transmitters, minimum separation distance is 20 cm, even if calculations indicate MPE distance is less

Since the MSD is less than 20 cm when using the peak reading with no duty cycle reduction, the duty cycle was not calculated. Installed, the EUT will have a 1% or less duty cycle.