

RF Exposure

This calculation is based on the highest EIRP possible from the Remote or the Base considering maximum power and antenna gain. The following formulas were used:

The highest output power of the EUT is 9.1 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"

Freq. MHz	S GP limit mW/cm ²	Maximum RF power dBm	Antenna Gain dB	EIRP dBm	EIRP watts	MSD d meters
925	0.616667	9.6	0	9.6	0.0091	0.0108

GP is the limit for general Population/Uncontrolled Exposure
MSD is the minimum Separation Distance

Notes on above table.

(S) GP limit is from OET 65 table 1B

EIRP = Power in dBm + Antenna Gain in dBi

MSD (Minimum Separation Distance) = $((\text{EIRP} \times 30) / (3770 \times S))^{0.5}$

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

The low threshold for a device operated within 2.5 cm from human body is $60/(f \text{ GHz}) = 60/0.927 = 64.725 \text{ mw}$
Since this device has a power which is lower than 64.725 mw, no SAR is required.

2 RF EVALUATION FOR RSS-102E

Since the e.i.r.p. of the Product is less than 10 mW, it is exempt from routine SAR and RF exposure evaluations in accordance to Sections 2.5.1 or 2.5.2 of RSS-102e.