

## RF Exposure

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

The highest effective output power of the EUT is 0.9 mW

### 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 <sup>2</sup>	Maximum RF power dBm	Antenna Gain dB	EIRP dBm	EIRP watts	MSD d meters
2450	1	-0.2	0	-0.2	0.0010	0.0028

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

**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  $60/(f \text{ GHz}) = 60/2.440 = 24.59 \text{ mw}$   
Since this device has a power which is lower than 24.59 mw, no SAR is required.

### 2 RF EVALUATION FOR RSS-102E

Since the e.i.r.p. of the Product is 0.9 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.