

relating to item 3)

RF Exposure Compliance Requirements

Because of the low transmitted peak power of less than 30 dBm this device complies with the MPE requirements. With consideration of the duty cycle the value of the averaged power is still smaller.

Determination of permitted Power Density at 2.4 GHz for 100 mW and 1 W according to OET Bulletin 65 (97-01):

1. Power density

$$S = \frac{\text{EIRP}}{4 R^2 \pi}$$

EIRP - equivalent isotropically radiated power
R - distance to the center of radiation
of the antenna

2. Calculated power density values for 100 mW (20 dBm) and 1 W (30 dBm)

distance	Power density	
cm	mW / cm ²	
	100 mW	1 W
20	0,02	0,2

3. Limit according to Appendix A of Supplement C (01-01) to OET BULLETIN 65 (97-01) for uncontrolled exposure:

Frequency range 1500 - 100000 MHz :

For 2.4 GHz: $S = 1.0 \text{ mW / cm}^2$

4. Assessment

The sample complies to the MPE requirements because the radiated output power provide a power density as calculated according to the formula above, below the requested limits.