

WDCOCC-SING (EUT) RF Exposure:-

The WDCOCC-SING is intended as a mobile device. A warning statement is included in the user manual advising users to maintain a minimum distance of 20cm.

Evaluation is therefore for exposure potential against the MPE limits given in Appendix A of OET Bulletin 65, Supplement C: $F_{\text{MHz}} / 1500$ (mW/cm²) (for 300-1500MHz).

Compliance requirements are based upon General population / Uncontrolled exposure.

Equation (3) of OET Bulletin 65:

$$S = \frac{P \cdot G}{4 \pi \cdot R^2}$$

where: S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g. mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna (appropriate units, e.g. cm)

Substituting known values for the WDCOCC-SING EUT:

worst case Peak power, P = 5.9mW (+7.77dBm).

antenna gain is included as it is integral antenna equipment, G =1.

Distance, R = 20cm (for mobile use).

$$S = 0.001172 < 0.61467 \text{ mW/cm}^2$$