

MPE limit Calculation: (Met 13035)

Equation from page 18 of OET 65, Edition 97-01

$$S = PG / 4 * \pi * R^2 = 0.0186 \times 6 / 12.566 \times 0.04 \\ = 0.1116 \text{ w} / 0.5 \text{ m}^2 = 0.223 \text{mw} / \text{cm}^2$$

S = Power density

P = Power input to antenna (0.0186 w )

G = antenna gain ( 6 dBi )

R = distance to the center of radiation of the antenna (0.2m )

MPE limit for uncontrolled exposure 1 mw / cm<sup>2</sup>

The EUT power density @ 20 cm = 0.223 mw / cm<sup>2</sup>