Zinwave 3000 Optical RU DAS

Maximum Permitted Exposure Calculation

DS08_ZIN_MPE_04_A

The equation for the MPE calculation is given in OET bulletin 65, page 19 as

$$S = EIRP/4\pi r^2$$

Where		
	S	= Power density (W/m^2)
	EIRP	= Effective Isotropically Radiated Power = P x G (W)
	r	= Perpendicular distance from antenna

Values		
	P	= 20 dBm = 100 mW
	G	= 8 dBi = 6.31 linear
	R	= 20 cm

Calculation		
	S	= 100 * 6.31 / (4 * 3.14159 * 20^2)
	S	= 0.13 mW/m^2

Limit   Maximum permitted value of S is given in table 1(b) – Limits for general Population / Uncontrolled Exposure, of S = 1.0 mW/m^2

Conclusion   The 3000 Co-Ax DAS meets MPE limits at 20 cm distance