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Nomenclature	Formula	Value	Unit	INPUT PARAMETERS	units
Diameter of Feed Mouth	$P = \text{Max Power into Antenna}$	Watts	(Worst Case)	CALCULATED VALUES	
	$A = \text{Area of Reflector}$	meters^2	$l = \text{Length of Near Field}$	$L = \text{Beginning of Far Field}$	$a = \text{Area of Feed Mouth}$
	$\frac{\pi \cdot d^2}{4}$			POWER DENSITY	
CALCULATIONS	Region		Maximum at	Hazard Assessment	

1 Near Field $4\pi P/A$ Uniform in a cylinder of dia = D and length = l
 2 Far Field $GP/(4(\pi)L^2)$ " L (Beginning of Far Field Region)
 Transition $\leq$ Nr Fld Region# 1 (Beginning of Near Field Region)
 4 Near Reflector Surface At Reflector Surface
 5 Between Reflector & Ground P/A At Feed
 6 Between Reflector and Feed $4P/A$ < FCC
 MPE Limit $4P/a$ Value (mW/cm²)
 RADIATION CALCULATIONS FOR M = Antenna Aperture Major Axis m = Antenna
 Aperture Minor Axis $\pi x M x m / 4k^2$ $0.6M^2/k^2n(4x\pi x A)/k^2$
 Maximum Power Density in Region f = frequency GHz n = Aperture
 Efficiency (FCC MPE Limit = 1 mW/cm²) Exhibit B > FCC MPE Limit (See
 Exhibit A) Walgreens Experimental STA
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