

POWER DENSITY ESTIMATIONS BASED ON POWER OUTPUT, ANTENNA GAIN, AND DISTANCE FROM ANTENNA

$$(P G) / (4 R^2 \pi) = S$$

where: S = maximum power density (mW/cm^2)		transmitter operating variables:	
P =	power input to the antenna ----->>	=	11.855 <small>(dBm)</small> - or -
G =	gain of the antenna - worst case ----->>	=	5.42 <small>(dBi)</small> - or -
R =	distance to the center of the radiation of the antenna -->>	=	20 <small>(cm)</small>

must be blank if dB values are entered

$(P G) / (4 * R^2 * \pi) = S$	(mW/cm^2)
$(15.32851206 \text{ (mw)} \quad 3.48337 \text{ (gain)}) / (4 * 20^2 \text{ (cm)} * \pi) = S$	(mW/cm^2)
$(53.39492736) / (4 * 400 * \pi^3) = S$	(mW/cm^2)
$(53.39492736) / (5026.548246) = 0.010623$	(mW/cm^2)