

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:		must be blank if dB values are entered	
P =	power input to the antenna ----->>	=	13.04	(dBm)	- or -		(mW)
G =	gain of the antenna - worst case ----->>	=	3.2	(dBi)	- or -		(numeric gain)
R =	distance to the center of the radiation of the antenna -->>	=	20				(cm)

(P	G) / (4	*	R	²	*	π)	=	S	(mW/cm ²)
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(20.1372425	2.08930) / (4	*	20	²	*	π)	=	S	(mW/cm ²)
	(mw)	(gain)				(cm)							

(42.07266284) / (4	*	400	*	π)	=	S	(mW/cm ²)
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(42.07266284) / (5026.548246)	=	0.008370	(mW/cm ²)
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