

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 ----->>	=	26.01	(dBm) - or -		(mW)
	G =	gain of the antenna - worst case ----->>	=	9	(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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(	399.0249024	7.94328	) / (4 * 20 ² * π)	=	S	(mW/cm ²)
	(mw)	(gain)				

(	3169.567463	) / (4 * 400 * π)	=	S	(mW/cm ²)
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(	3169.567463	) / (5026.548246)	=	0.630565	(mW/cm ²)
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