

**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 ----->>	=	-0.96	(dBm) - or -	(mW)
	G =	gain of the antenna - worst case ----->>	=	2.1	(dBi) - or -	(numeric gain)
	R =	distance to the center of the radiation of the antenna -->>	=	20		(cm)

$(P \ G) / (4 * R^2 * \pi)$	=	S	(mW/cm ²)
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$(0.801678063 \ 1.62181) / (4 * 20^2 * \pi)$	=	S	(mW/cm ²)
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$(1.300169578) / (4 * 400 * \pi)$	=	S	(mW/cm ²)
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$(1.300169578) / (5026.548246)$	=	0.000259	(mW/cm ²)
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BLE Portion

Note: The Transmitters for the EUT
cannot transmit at the same time