

MPE CALCULATION

For WattStopper – Wireless Universal Dimmer; Model: DRD40

FCC ID: Q4BDRD40

RF Exposure Requirements:	47 CFR §1.1307(b)
RF Radiation Exposure Limits:	47 CFR §1.1310
RF Radiation Exposure Guidelines:	FCC OST/OET Bulletin Number 65
EUT Frequency Band:	904.861 – 924.873 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	300 – 1500 GHz
Power Density Limit:	0.610 mW/ cm ² ;

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$
Where, S = Power Density
P = Power Input to Antenna
G = Antenna Gain
R = distance to the center of radiated antenna

Middle Channel (918.845 MHz): Power = 2.37dBm, Antenna Gain = 2.27dBi, Prediction distance 20cm

S = 0.000580 mW/cm²

Result:

The Above Result had shown that Device complied with 0.610 mW/cm² Power density requirement for distance of 20cm.

Completed By: Dan Corona

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