

MPE CALCULATION

For Zebra Technologies – RFID ENCODER; Model: P640I

FCC ID: I28--640I-UHF

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:	902.750 – 927.250 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

Low Channel (927.250 MHz): Power = 29.67dBm, Antenna Gain = -20dBi, Prediction distance 20cm

$S = 0.00184 \text{ mW/cm}^2$

Result

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

Completed By : Choon Sian Ooi

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