

MPE CALCULATION

FCC ID: 2AKNFRDR8018

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: 902-928MHz
Limits for General Population/Uncontrolled Exposure in the band of: 300 - 1500 MHz
Power Density Limit: 0.618 mW / cm²

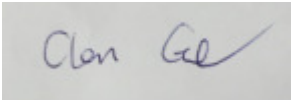
Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$
Where, S = Power Density
P = Power Input to Antenna
G = Antenna Gain
R = distance to the center of radiated antenna

Prediction distance 90cm

(RFID 902-928MHz): Power = 33.15dBm, Antenna Gain = 12.43dBi, Apparent Gain = 12.43 dBi, Power density = 0.447 mW/cm²

Type	CH Freq (MHz)	Conducted Power (dBm)	Tune-Up Tolerance	Maximum Tune-up power (dBm)	Antenna Gain (dBi)	Measurement Distance (cm)	Calculated MPE (mW/cm ²)	MPE Limit (mW/cm ²)	Pass/Fail
902-928MHz RFID	903.0	33.86	±1	34.86	12.43	90	0.418	0.618	Pass

The Above Result had shown that the Device complied with MPE requirement.



Completed By: Chen Ge

SIEMIC, Inc

775 Montague Expressway, Milpitas, CA 95035

Phone: (408) 526-1188

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