

MPE Calculation

$$S = \text{EIRP} / (4R^2\pi)$$

S = Maximum power density (mW/cm²)

P = Power input to the antenna (mW)

G = Numeric power gain of the antenna

R = Distance to the center of the radiation of the antenna

EIRP = Equivalent Isotropic Radiated Power(mW) (=P*G)

Frequency range (MHz)			Electric Field strength (V/m)	Magnetic field strength (A/m)	Power Density (mW/cm ²)	Averageing time (minutes)
0.3	~	1.34	614	1.63	*100	30
1.34	~	30	824 / f	2.19 / f	*180 / f ²	30
30	~	300	27.5	0.073	0.2	30
300	~	1,500			f / 1500	30
1,500	~	100,000			1	30

Model Name : **ECRF232C**

FCC ID : **2AW9X-ECRF232C**

Separation distance (R) : **0.5 cm**

Modulation	Frequency (MHz)	Measured Maximum Radiated power	Measured Maximum Radiated power	Tune-up tolerance	Max. Power with tune-up tolerance (P)		Power Density (S)	Limit of Power Density (S)	Result
		(dBuV/m)	(dBm)	(dB)	(dBm)	(mW)	(mW/cm ²)	(mW/cm ²)	
ASK	13.56	42.00	-65.00	± 1.00	-64.00	3.98E-07	1.27E-07	13.27	PASS

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.