

MPE Calculation

RF feature	Frequency range (MHz)			Separation distance(cm)	Max. tune-up EIRP (dBm) ^{Note1}	Maximum EIRP (mW)	Maximum power density(mW/cm²)	Requirement (mW/cm²)
FMCW Radar	77 000.0	~	79 000.0	20.00	25.00	316.228 0	0.062 9	1.000
		~						
		~						
		~						
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Note1: Please refer to the tune-up procedure for tune-up max power.

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

The MPE sample calculation for this exposure is shown below.

• **S** = EIRP / $(4 R^2 \pi)$ - **Note**

= 316.228 / (4 \times R² \times \times S= Maximum power density(mW/cm²)

= 0.0629 mW/cm² EIRP= Equivalent Isotropic Radiated Power(mW)

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

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)			Electric Field strength (V/m)	Magnetic field strength (A/m)	Power Density (mW/cm²)	Averageing time (minutes)
0.3	~	1.34	614	1.63	*100	30
1.34	~	30	824/f	2.19 / f		
30	~	300	27.5	0.073	0.2	30
300	~	1,500			f / 1500	30
1,500	~	100,000			1.0	30

Conclusion: The exposure condition of this device is compliant with FCC