

FCC ID: 2BP6I-6702CADD1

Maximum Permissible Exposure (MPE)

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
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			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 * P * G}}{d}$$

$$\text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Average RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 * P * G}{377 * D^2}$$

From the EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

SRD

Operation Frequency: ASK: 902.75 MHz~927.25MHz

Antenna Type:

Antenna 1: External Antenna

Antenna 2: External Antenna

Antenna 3: External Antenna

Antenna 4: External Antenna

Antenna 5: External Antenna

Antenna 6: External Antenna

R=20cm

Channel Freq. (MHz)	modulation	MAX conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
		(dBm)		tune-up power		Gain			
				(dBm)	(mW)	(dBi)	Numeric		
902.75	ASK	20.23	20.5±1	21.5	141.254	11.11	12.91	0.3628	0.60
915.25		20.4	20.5±1	21.5	141.254	11.11	12.91	0.3628	0.61
927.25		20.28	20.5±1	21.5	141.254	11.11	12.91	0.3628	0.62

Conclusion:For the max result : $0.3628 \leq 0.60$ for Max Power Density, compliance RF exposure..

Note: This product does not support simultaneous delivery.

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