

產品名稱: **Body controller module**

產品型號: **BCMevoc**

1.1 適用標準

依據國家通訊傳播委員會低功率射頻器材技術規範 6.20.2 節之規定，若受測物於正常操作模式下，其發射機距離人體 20 公分以上者，可測試最大暴露允許值 (Maximum Permissible Exposure (MPE)) 以證明其符合電波暴露量之要求。

限制如下：

(1) 職業性/可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (分)
0.3~3.0	614	1.63	*100	6
3~30	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	-----	-----	5.0	6

註1: 標記*表平面波等效功率密度。

註2: f表測試頻率，單位：MHz。

(2) 一般人/不可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (分)
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

註1：標記*表平面波等效功率密度。

註2：f表測試頻率，單位：MHz。

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum Permissible Exposure (MPE) Evaluation

Prediction of MPE limit at a given distance

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum Field Strength @ 3m:	118.72	(dBuV/m)
Maximum EIRP:	23.4624251	(dBm)
Maximum EIRP:	221.94354	(mW)
Tune-Up power Tolerance:	1	dB
Maximum Pav :	279.410363	(mW)
Prediction distance:	20	(cm)
MPE limit for uncontrolled exposure at prediction	0.6	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.0556151	(mW/cm ²)

Measurement Result:

The predicted power density level at 20 cm is 0.0556151 mW/cm².. This is below the uncontrolled exposure limit of 0.6 mW/cm².

~ End of Report ~