

Honeywell
MPE Calculator

Model: Internal Tx Unit
MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi.
dBi = dB gain compared to an isotropic radiator.
S = power density in mW/cm²

Antenna Gain (dBi) **0**
dBi to dBd **2.2**
Tx Frequency (MHz) **915** Output Power dBd + 2.17 = dBi Average (Watts) **0.0021** Antenna Gain (dBd) **-2.17**
Cable Loss (dB) **0.0** (dBm) 3.22 Antenna minus cable (dBi) 0.00
Calculated ERP (mw) 1.274 EIRP = Po(dBM) + Gain (dB)
Calculated EIRP (mw) 2.100 Radiated (EIRP) dBm 3.222
ERP = EIRP - 2.17 dB
Radiated (ERP) dBm 1.052

Occupational Limit
3.05000 mW/cm²
Power density (S)
EIRP
----- = mW/cm²
General Public Limit
0.61000 mW/cm²
 $4 \pi r^2$
r (cm) EIRP (mW)

FCC radio frequency radiation exposure limits per 1.1310		
Frequency (MHz)	Occupational Limit	Public Limit
300-1,500	f / 300	f / 1500
1,500-10,000	N/A	N/A

FCC radio frequency radiation exposure limits per 1.1310		
Frequency (MHz)	Occupational Limit @ Tx Freq (mW/cm ²)	Public Limit @ Tx Freq (mW/cm ²)
300-1,500	3.05	0.61
1,500-10,000	5	1.0

EIRP	Distance	Distance	S	Distance
milliwatts	cm	inches	mW/cm ²	Feet
2.100	350.00	137.80	0.00000	11.48293963
2.100	300.00	118.11	0.00000	9.842519685
2.100	275.00	108.27	0.00000	9.022309711
2.100	250.00	98.43	0.00000	8.202099738
2.100	200.00	78.74	0.00000	6.56167979
2.100	150.00	59.06	0.00001	4.921259843
2.100	100.00	39.37	0.00002	3.280839895
2.100	75.00	29.53	0.00003	2.460629921
2.100	60.00	23.62	0.00005	1.968503937
2.100	55.00	21.65	0.00006	1.804461942
2.100	50.00	19.69	0.00007	1.640419948
2.100	45.00	17.72	0.00008	1.476377953
2.100	40.00	15.75	0.00010	1.312335958
2.100	35.00	13.78	0.00014	1.148293963
2.100	30.00	11.81	0.00019	0.984251969
2.100	25.00	9.84	0.00027	0.820209974
2.100	20.00	7.87	0.00042	0.656167979
2.100	15.00	5.91	0.00074	0.492125984
2.100	10.00	3.94	0.00167	0.32808399
2.100	5.00	1.97	0.00668	0.164041995
2.100	4.00	1.57	0.01044	0.131233596
2.100	3.00	1.18	0.01857	0.098425197
2.100	2.00	0.79	0.04178	0.065616798
2.100	1.00	0.39	0.16711	0.032808399
2.100	0.70	0.28	0.34105	0.022965879
2.100	0.52	0.20	0.61802	0.017060367
2.100	0.50	0.20	0.66845	0.016404199
2.100	0.40	0.16	1.04445	0.01312336
2.100	0.30	0.12	1.85681	0.00984252
2.100	0.24	0.09	2.90126	0.007874016
2.100	0.10	0.04	16.71127	0.00328084

Frequency (MHz)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (cm / inches)
300-1,500	.024 / 0.09	0.5 / 0.2
1,500-10,000	N/A	N/A

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Honeywell FM&T LLC
MODEL: Internal Tx
Test #:070712
Test to: CFR47, 2, 15.231

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