

DMP	Model:	1183	Test Number:	110809		
MPE Calculator	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/cm <sup>2</sup>					
					Antenna Gain (dBi)	1
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	915	Maximum (Watts)	0.0006		Antenna Gain (dBd)	-1.17
Cable Loss (dB)	0.0	(dBm)	-2.23		Antenna minus cable (dBi)	1.00
	Calculated ERP (mw)	0.457		EIRP = Po(dBm) + Gain (dB)		
	Calculated EIRP (mw)	0.754			Radiated (EIRP) dBm	-1.229
				ERP = EIRP - 2.17 dB		
<b>Occupational Limit</b>					Radiated (ERP) dBm	-3.399
3.05000 mW/cm <sup>2</sup>	<div style="border: 1px solid black; padding: 5px;">           Power density (S)            EIRP            ----- = mW/cm<sup>2</sup>  <math>4 \pi r^2</math>            r (cm) EIRP (mW)         </div>					
30.50000 W/m <sup>2</sup>						
<b>General Public Limit</b>						
0.61000 mW/cm <sup>2</sup>						
6.10000 W/m <sup>2</sup>						
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	5	1			
FCC radio frequency radiation exposure limits per 1.1310						
	Frequency (MHz)	Occupational Limit @ Tx Freq	Public Limit @ Tx Freq (mW/cm <sup>2</sup> )			
	300-1,500 (mW/cm <sup>2</sup> )	3.05	0.61			
	300-1,500 (W/m <sup>2</sup> )	30.5	6.1			
	1,500-10,000 (mW/cm <sup>2</sup> )	5	1			
	1,500-10,000 (W/m <sup>2</sup> )	50	10			
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm <sup>2</sup>	W/m <sup>2</sup>	cm	meter	inches	Feet
0.754	0.00001	0.00006	100.00	1.00	39.37	0.08
0.754	0.00002	0.00024	50.00	0.50	19.69	0.04
0.754	0.00004	0.00037	40.00	0.40	15.75	0.03
0.754	0.00007	0.00067	30.00	0.30	11.81	0.03
0.754	0.00015	0.00150	20.00	0.20	7.87	0.02
0.754	0.00019	0.00185	18.00	0.18	7.09	0.02
0.754	0.00027	0.00267	15.00	0.15	5.91	0.01
0.754	0.00031	0.00306	14.00	0.14	5.51	0.01
0.754	0.00035	0.00355	13.00	0.13	5.12	0.01
0.754	0.00042	0.00416	12.00	0.12	4.72	0.01
0.754	0.00060	0.00600	10.00	0.10	3.94	0.01
0.754	0.00074	0.00740	9.00	0.09	3.54	0.01
0.754	0.00094	0.00937	8.00	0.08	3.15	0.01
0.754	0.00122	0.01224	7.00	0.07	2.76	0.01
0.754	0.00167	0.01666	6.00	0.06	2.36	0.01
0.754	0.00240	0.02399	5.00	0.05	1.97	0.00
0.754	0.01499	0.14992	2.00	0.02	0.79	0.00
			Occupational Limit minimum Distance (meters)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (meters)	Public Limit minimum distance (cm / inches)
	Frequency (MHz)					
	300-1,500		N/A	N/A	N/A	N/A
	1,500-10,000		N/A	N/A	N/A	N/A