

DMP	Model:	738Z	Test Number:	111217T		
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 ²					
					Antenna Gain (dBi)	1
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	908	Maximum (Watts)	0.0002		Antenna Gain (dBd)	-1.17
Cable Loss (dB)	0.0	(dBm)	-6.99		Antenna minus cable (dBi)	1.00
	Calculated ERP (mw)	0.153		EIRP = Po(dBm) + Gain (dB)		
	Calculated EIRP (mw)	0.252			Radiated (EIRP) dBm	-5.990
				ERP = EIRP - 2.17 dB		
	Occupational Limit				Radiated (ERP) dBm	-8.160
	3.02667 mW/cm ²	<div style="border: 1px solid black; padding: 5px;"> Power density (S) EIRP ----- = mW/cm² 4 π r² r (cm) EIRP (mW) </div>				
	30.26667 W/m ²					
	General Public Limit					
	0.60533 mW/cm ²					
	6.05333 W/m ²					
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			
	300-1,500 (mW/cm2)	3.026666667	0.605333333			
	300-1,500 (W/m2)	30.26666667	6.053333333			
	1,500-10,000 (mW/cm2)	5	1			
	1,500-10,000 (W/m2)	50	10			
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet
0.252	0.00000	0.00002	100.00	1.00	39.37	0.08
0.252	0.00001	0.00008	50.00	0.50	19.69	0.04
0.252	0.00001	0.00013	40.00	0.40	15.75	0.03
0.252	0.00002	0.00022	30.00	0.30	11.81	0.03
0.252	0.00005	0.00050	20.00	0.20	7.87	0.02
0.252	0.00006	0.00062	18.00	0.18	7.09	0.02
0.252	0.00009	0.00089	15.00	0.15	5.91	0.01
0.252	0.00010	0.00102	14.00	0.14	5.51	0.01
0.252	0.00012	0.00119	13.00	0.13	5.12	0.01
0.252	0.00014	0.00139	12.00	0.12	4.72	0.01
0.252	0.00020	0.00200	10.00	0.10	3.94	0.01
0.252	0.00025	0.00247	9.00	0.09	3.54	0.01
0.252	0.00031	0.00313	8.00	0.08	3.15	0.01
0.252	0.00041	0.00409	7.00	0.07	2.76	0.01
0.252	0.00056	0.00557	6.00	0.06	2.36	0.01
0.252	0.00080	0.00801	5.00	0.05	1.97	0.00
0.252	0.00501	0.05009	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