

Dbii		Model: F50	Test Number: 090908		
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)	26
		Output Power		dBd + 2.17 = dBi	2.2
Tx Frequency (MHz)	4967.5	Maximum (Watts)	0.5000	Antenna Gain (dBd)	23.83
Cable Loss (dB)	0.0	(dBm)	26.99	Antenna minus cable (dBi)	26.00
	Calculated ERP (mw)	120773.042		EIRP = Po(dBm) + Gain (dB)	
	Calculated EIRP (mw)	199053.585		Radiated (EIRP) dBm	52.990
				ERP = EIRP - 2.17 dB	
<b>Occupational Limit</b>		Power density (S)		Radiated (ERP) dBm	50.820
<b>5.00000</b>	<b>mW/cm<sup>2</sup></b>	EIRP			
		----- = mW/cm <sup>2</sup>			
<b>General Public Limit</b>		4 π r <sup>2</sup>			
<b>1.00000</b>	<b>mW/cm<sup>2</sup></b>	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	5	1		
FCC radio frequency radiation exposure limits per 1.1310					
	Frequency (MHz)	Occupational Limit @ Tx Freq (mW/cm <sup>2</sup> )	Public Limit @ Tx Freq (mW/cm <sup>2</sup> )		
	300-1,500	16.55833333	3.311666667		
	1,500-10,000	5	1		
	EIRP	Distance	Distance	S	Distance
	milliwatts	cm	inches	mW/cm <sup>2</sup>	Feet
	199053.585	350.00	137.80	0.12931	11.48
	199053.585	300.00	118.11	0.17600	9.84
	199053.585	200.00	78.74	0.39600	6.56
	199053.585	150.00	59.06	0.70401	4.92
	199053.585	126.00	49.61	0.99774	4.13
	199053.585	125.00	49.21	1.01377	4.10
	199053.585	100.00	39.37	1.58402	3.28
	199053.585	90.00	35.43	1.95558	2.95
	199053.585	75.00	29.53	2.81603	2.46
	199053.585	60.00	23.62	4.40005	1.97
	199053.585	56.00	22.05	5.05108	1.84
	199053.585	50.00	19.69	6.33607	1.64
	Frequency (MHz)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (cm / inches)		
	300-1,500	N/A	N/A		
	1,500-10,000	56 / 22	126 / 50		