

MPE Calculator      Lectrosonics    DBZLMAM      Test 070202M  
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)	0
		Output Power	dBd + 2.17 = dBi	dBi to dBd	2.17
Tx Frequency (MHz)	652	(Watts)	0.0846	Antenna Gain (dBd)	-2.17
Cable Loss (dB)	0.0	(dBm)	19.27	Antenna minus cable (dBi)	0.00
	Calculated ERP (mw)	51.300		EIRP = Po(dBm) + Gain (dB)	
	Calculated EIRP (mw)	84.550		Radiated (EIRP) dBm	19.271
				ERP = EIRP - 2.17 dB	
				Radiated (ERP) dBm	17.101

<b>Occupational Limit</b>	<b>2.17333</b>	mW/cm <sup>2</sup>	Power density (S) EIRP ----- = mW/cm <sup>2</sup> 4 π r <sup>2</sup>
<b>General Public Limit</b>	<b>0.43467</b>	mW/cm <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 (mW/cm <sup>2</sup> )	Public Limit @ Tx Freq (mW/cm <sup>2</sup> )
300-1,500	2.173333333	0.434666667
1,500-10,000	5	1

EIRP	Distance	Distance	S
milliwatts	cm	inches	mW/cm <sup>2</sup>
84.550	50.00	19.69	0.00269
84.550	40.00	15.75	0.00421
84.550	30.00	11.81	0.00748
84.550	25.00	9.84	0.01077
84.550	20.00	7.87	0.01682
84.550	15.00	5.91	0.02990
84.550	14.00	5.51	0.03433
84.550	13.00	5.12	0.03981
84.550	12.00	4.72	0.04672
84.550	11.00	4.33	0.05561
84.550	10.00	3.94	0.06728
84.550	9.00	3.54	0.08307
84.550	8.00	3.15	0.10513
84.550	7.00	2.76	0.13731
84.550	6.00	2.36	0.18690
84.550	5.75	2.26	0.20350
84.550	5.50	2.17	0.22242
84.550	4.50	1.77	0.33226
84.550	4.00	1.57	0.42157
84.550	3.00	1.18	0.74759
84.550	2.00	0.79	1.68207
84.550	1.80	0.71	2.07663
84.550	1.00	0.39	6.72828
84.550	0.75	0.30	11.96138
84.550	0.50	0.20	26.91310

Frequency (MHz)	Occupational Limit minimum Distance (cm)	General Public Limit minimum distance (cm)
300-1,500	1.80	4.00
1,500-10,000	N/A	N/A

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LectroSonics Inc.  
Model: LMaM  
Test #: 070202M  
Test to: FCC Parts 2 and 74

FCCID#: DBZLMAM  
S/N: P479