

MPE Calculator Lectrosonics DBZLMAH Test 070202H
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
		Output Power (Watts)	dBd + 2.17 = dBi	2.17
Tx Frequency (MHz)	755	0.0826	Antenna Gain (dBd)	-2.17
Cable Loss (dB)	0.0	(dBm) 19.17	Antenna minus cable (dBi)	0.00
	Calculated ERP (mw) 50.116		EIRP = Po(dBm) + Gain (dB)	
	Calculated EIRP (mw) 82.600		Radiated (EIRP) dBm	19.170
			ERP = EIRP - 2.17 dB	
			Radiated (ERP) dBm	17.000

Occupational Limit	Power density (S)
2.51667 mW/cm ²	EIRP
	----- = mW/cm ²
General Public Limit	4 π r ²
0.50333 mW/cm 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	5	1

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	2.516666667	0.503333333
1,500-10,000	5	1

EIRP	Distance	Distance	S
milliwatts	cm	inches	mW/cm ²
82.600	50.00	19.69	0.00263
82.600	40.00	15.75	0.00411
82.600	30.00	11.81	0.00730
82.600	25.00	9.84	0.01052
82.600	20.00	7.87	0.01643
82.600	15.00	5.91	0.02921
82.600	14.00	5.51	0.03354
82.600	13.00	5.12	0.03889
82.600	12.00	4.72	0.04565
82.600	11.00	4.33	0.05432
82.600	10.00	3.94	0.06573
82.600	9.00	3.54	0.08115
82.600	8.00	3.15	0.10270
82.600	7.00	2.76	0.13414
82.600	6.00	2.36	0.18259
82.600	5.75	2.26	0.19881
82.600	5.50	2.17	0.21729
82.600	4.50	1.77	0.32460
82.600	3.60	1.42	0.50718
82.600	3.00	1.18	0.73034
82.600	2.00	0.79	1.64327
82.600	1.62	0.64	2.50461
82.600	1.00	0.39	6.57310
82.600	0.75	0.30	11.68551
82.600	0.50	0.20	26.29240

Frequency (MHz)	Occupational Limit minimum Distance (cm)	General Public Limit minimum distance (cm)
300-1,500	1.62	3.60
1,500-10,000	N/A	N/A

ROGERS LABS, INC.
4405 W. 259th Terrace
Louisburg, KS 66053
Phone/Fax: (913) 837-3214

LectroSonics Inc.
Model: LMaH
Test #:070202H
Test to: FCC Parts 2 and 74

FCCID#: DBZLMAH
S/N:P480
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LMaH MPE Calculation 2/7/2007