MPE Calculation Page

MPE Calculator	MPE uses EII	RP for calculation. EIRP is based	on TX power added to the ante	nna gain in dBi.		
		compared to an isotropic radiate		_		
		nsity in mW/cm^2				
				1	Antenna Gain (dBi)	
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2
Tx Frequency (MHz)	5785	Maximum (Watts)	0.739111	A	ntenna Gain (dBd)	29.
Cable Loss (dB)	0.0	(dBm)	28.69	Δntenna	a minus cable (dBi)	32.
Cable Loss (db)	0.0	(dbiii)	28.09	Antenna	rimius cable (dbi)	32
Calcu	lated ERP (mw)	710738.531		EIRP = Po(dBM) + Gain(dB)		
Calcula	ated EIRP (mw)	1171412.517			liated (EIRP) dBm	60.6
Оссии	oational Limit	Power density (S)		ERP = EIRP - 2.17 dB	diated (ERP) dBm	58.5
5.00000 mW/cm ²		EIRP		TO TO	idated (Erd) dBiii	50
50.00000 W/m ²		= mW/cm^2				
		4 40				
	al Public Limit					
		r (cm) EIRP (mW)				
10.0000	0 W/m ²	FOC 1' C	*** ***	1 1210 (W// 2)		
			ncy radiation exposure limits per			
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500 1,500-10,000	f/300 5	f/1500		
		1,500-10,000	<u> </u>	1		
		FCC radio	frequency radiation exposure lim	its per 1.1310		
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500 (mW/cm2)	19.28333333	3.856666667		
		300-1,500 (W/m2)	192.8333333	38.56666667		
		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
1171412.517	0.37287	3.72872	500.00	5.00	196.85	0.42
1171412.517	0.58261	5.82613	400.00	4.00	157.48	0.33
1171412.517	1.03576	10.35756	300.00	3.00	118.11	0.25
1171412.517	2.33045	23.30451	200.00	2.00	78.74	0.17
1171412.517	3.04385	30.43855	175.00	1.75	68.90	0.15
1171412.517	4.14302	41.43024	150.00	1.50	59.06	0.13
1171412.517	4.75602	47.56023	140.00	1.40	55.12	0.12
1171412.517	5.03990	50.39903	136.00	1.36	53.54	0.11
1171412.517	5.51586	55.15861	130.00	1.30	51.18	0.11
1171412.517	5.96595	59.65955	125.00	1.25	49.21	0.10
1171412.517	6.47348	64.73475	120.00	1.20	47.24	0.10
1171412.517	7.70397	77.03971	110.00	1.10	43.31	0.09
1171412.517	9.32180	93.21805	100.00	1.00	39.37	0.08
1171412.517	11.50840	115.08401	90.00	0.90	35.43	0.08
1171412.517	14.56532	145.65320	80.00	0.80	31.50	0.07
1171412.517	19.02409	190.24091	70.00	0.70	27.56	0.06
1171412.517	25.89390	258.93902	60.00	0.60	23.62	0.05
			0 4 17:5:11	0 4 17: 5 ::	Dir Ti i	D.10 T.
			Occupational Limit minimum	Occupational Limit minimum	Public Limit	Public Limi
			Distance	Distance	minimum	minimum distar
		Engage A III	(
		Frequency (MHz) 300-1,500	(meters) N/A	(cm / inches) N/A	distance (meters) N/A	(cm / inches) N/A

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 Mikrotikls SIA Model: R11e-5HnD Test #: 130319

Test to: CFR47 (15.247) File: RFExp R11E5HND SN: EUT1 FCC ID#: TV7R11E5HND Date: January 22, 2014

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