MPE Calculation page

MPE Calculator		RP for calculation. EIRP is	•	added to the antenna g	gain in dBi.	
		n compared to an isotropic : ensity in mW/cm^2	radiator.			
	s - power de	risity in in w/cm² 2			Antenna Gain (đBi)	1.
		Output Power		dBd + 2.17 = dBi	dBi to dBd	
Tx Frequency (MHz)	2441	•	0.020000		Antenna Gain (dBd)	
				_		
Cable Loss (dB)	0.0	(dBm)	13.01	Ante	enna minus cable (dBi)	1.7
Calcul	ated ERP (mw)	17.949		EIRP = Po(dBM) + Ga	in (dB)	
Calcula	ted EIRP (mw)	29.582			Radiated (EIRP) dBm	14.71
				ERP = EIRP - 2.17 dB		
	ational Limit	Power density (S) EIRP			Radiated (ERP) dBm	12.54
5.0000	0 mW/cm ²	= mW/cm^2				
50.0000	0 W/m^2	4 p r^2				
Genera	l Public Limit	r (cm) EIRP (mW)				
1.0000	0 mW/cm ²					
10,0000	0 W/m ²					
10.0000	***************************************	FCC radio frequency	y radiation exposure l	limits per 1 1310		
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500	f/300	f/1500		
		1,500-10,000	5	1		
		1,500 10,000		-		
		FCC radio frequency	y radiation exposure l	limits per 1.1310		
			Occupational Limit	Public Limit @ Tx		
		Frequency (MHz)	@ Tx Freq	Freq (mW/cm ²)		
		300-1,500 (mW/cm2)	8.136666667	1.627333333		
		300-1,500 (M/m2)	81.36666667	16.27333333		
		1,500-10,000 (mW/cm2)	5	10.27333333		
		1,500-10,000 (W/m2)	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
	mW/cm ²	W/m ²				
milliwatts 29.582	0.02354	0.23541	cm 10.00	meter 0.10	inches 3.94	Feet 0.01
29.582	0.02334	0.29063	9.00	0.10	3.54	0.01
29.582	0.02900	0.36782	8.00	0.09	3.15	0.01
29.582	0.03878			0.08		0.01
29.582	0.04004	0.48049	7 00	0.07	2.76	0.01
	0.06539	0.48042	7.00	0.07	2.76	0.01
29 582	0.06539	0.65391	6.00	0.06	2.36	0.01
29.582 29.582	0.06539 0.09416 0.14713	0.65391 0.94163				
	0.09416	0.65391	6.00 5.00	0.06 0.05	2.36 1.97	0.01 0.00
29.582	0.09416 0.14713	0.65391 0.94163 1.47130	6.00 5.00 4.00	0.06 0.05 0.04	2.36 1.97 1.57	0.01 0.00 0.00
29.582 29.582	0.09416 0.14713 0.26156	0.65391 0.94163 1.47130 2.61564	6.00 5.00 4.00 3.00	0.06 0.05 0.04 0.03	2.36 1.97 1.57 1.18	0.01 0.00 0.00 0.00
29.582 29.582 29.582	0.09416 0.14713 0.26156 0.58852	0.65391 0.94163 1.47130 2.61564 5.88519	5.00 5.00 4.00 3.00 2.00	0.06 0.05 0.04 0.03 0.02	2.36 1.97 1.57 1.18 0.79	0.01 0.00 0.00 0.00 0.00
29.582 29.582 29.582 29.582	0.09416 0.14713 0.26156 0.58852 0.65210	0.65391 0.94163 1.47130 2.61564 5.88519 6.52098	6.00 5.00 4.00 3.00 2.00 1.90	0.06 0.05 0.04 0.03 0.02 0.02	2.36 1.97 1.57 1.18 0.79 0.75	0.01 0.00 0.00 0.00 0.00 0.00
29.582 29.582 29.582 29.582 29.582	0.09416 0.14713 0.26156 0.58852 0.65210 0.72657	0.65391 0.94163 1.47130 2.61564 5.88519 6.52098 7.26566	6.00 5.00 4.00 3.00 2.00 1.90 1.80	0.06 0.05 0.04 0.03 0.02 0.02 0.018	2.36 1.97 1.57 1.18 0.79 0.75 0.71	0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00
29.582 29.582 29.582 29.582 29.582 29.582 29.582	0.09416 0.14713 0.26156 0.58852 0.65210 0.72657 0.81456	0.65391 0.94163 1.47130 2.61564 5.88519 6.52098 7.26566 8.14559	6.00 5.00 4.00 3.00 2.00 1.90 1.80 1.70	0.06 0.05 0.04 0.03 0.02 0.02 0.018 0.017	2.36 1.97 1.57 1.18 0.79 0.75 0.71	0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.002 0.001
29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582	0.09416 0.14713 0.26156 0.58852 0.65210 0.72657 0.81456 0.91956 0.99261 1.04626	0.65391 0.94163 1.47130 2.61564 5.88519 6.52098 7.26566 8.14559 9.19560	6.00 5.00 4.00 3.00 2.00 1.90 1.80 1.70 1.60 1.54 1.50	0.06 0.05 0.04 0.03 0.02 0.02 0.018 0.017 0.016 0.015 0.015	2.36 1.97 1.57 1.18 0.79 0.75 0.71 0.67 0.63	0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.002 0.001
29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582	0.09416 0.14713 0.26156 0.58852 0.65210 0.72657 0.81456 0.91956	0.65391 0.94163 1.47130 2.61564 5.88519 6.52098 7.26566 8.14559 9.19560 9.92610	6.00 5.00 4.00 3.00 2.00 1.90 1.80 1.70 1.60	0.06 0.05 0.04 0.03 0.02 0.02 0.018 0.017 0.016 0.015	2.36 1.97 1.57 1.18 0.79 0.75 0.71 0.67 0.63	0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.002 0.001 0.001
29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582	0.09416 0.14713 0.26156 0.58852 0.65210 0.72657 0.81456 0.91956 0.99261 1.04626	0.65391 0.94163 1.47130 2.61564 5.88519 6.52098 7.26566 8.14559 9.19560 9.92610 10.46255	6.00 5.00 4.00 3.00 2.00 1.90 1.80 1.70 1.60 1.54 1.50	0.06 0.05 0.04 0.03 0.02 0.02 0.018 0.017 0.016 0.015 0.015	2.36 1.97 1.57 1.18 0.79 0.75 0.71 0.67 0.63 0.61 0.59	0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.002 0.001 0.001
29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582	0.09416 0.14713 0.26156 0.58852 0.65210 0.72657 0.81456 0.91956 0.99261 1.04626 1.20106	0.65391 0.94163 1.47130 2.61564 5.88519 6.52098 7.26566 8.14559 9.19560 9.92610 10.46255 12.01058	6.00 5.00 4.00 3.00 2.00 1.90 1.80 1.70 1.60 1.54 1.50 1.40	0.06 0.05 0.04 0.03 0.02 0.02 0.018 0.017 0.016 0.015 0.015 0.014 0.010	2.36 1.97 1.57 1.18 0.79 0.75 0.71 0.67 0.63 0.61 0.59 0.55 0.39	0.01 0.00 0.00 0.00 0.00 0.00 0.002 0.001 0.001 0.001 0.001 0.001
29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582	0.09416 0.14713 0.26156 0.58852 0.65210 0.72657 0.81456 0.91956 0.99261 1.04626 1.20106	0.65391 0.94163 1.47130 2.61564 5.88519 6.52098 7.26566 8.14559 9.19560 9.92610 10.46255 12.01058	6.00 5.00 4.00 3.00 2.00 1.90 1.80 1.70 1.60 1.54 1.50 1.40 1.00	0.06 0.05 0.04 0.03 0.02 0.02 0.018 0.017 0.016 0.015 0.015 0.014 0.010	2.36 1.97 1.57 1.18 0.79 0.75 0.71 0.67 0.63 0.61 0.59 0.55 0.39	0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00
29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582	0.09416 0.14713 0.26156 0.58852 0.65210 0.72657 0.81456 0.91956 0.99261 1.04626 1.20106	0.65391 0.94163 1.47130 2.61564 5.88519 6.52098 7.26566 8.14559 9.19560 9.92610 10.46255 12.01058	6.00 5.00 4.00 3.00 2.00 1.90 1.80 1.70 1.60 1.54 1.50 1.40 1.00 Occupational Limit minimum Distance	0.06 0.05 0.04 0.03 0.02 0.02 0.018 0.017 0.016 0.015 0.015 0.014 0.010 Occupational Limit minimum Distance	2.36 1.97 1.57 1.18 0.79 0.75 0.71 0.67 0.63 0.61 0.59 0.55 0.39	0.01 0.00 0.00 0.00 0.00 0.00 0.002 0.001 0.001 0.001 0.001 0.001 0.001 0.001
29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582	0.09416 0.14713 0.26156 0.58852 0.65210 0.72657 0.81456 0.91956 0.99261 1.04626 1.20106	0.65391 0.94163 1.47130 2.61564 5.88519 6.52098 7.26566 8.14559 9.19560 9.92610 10.46255 12.01058 23.54074	6.00 5.00 4.00 3.00 2.00 1.90 1.80 1.70 1.60 1.54 1.50 1.40 1.00	0.06 0.05 0.04 0.03 0.02 0.02 0.018 0.017 0.016 0.015 0.015 0.014 0.010	2.36 1.97 1.57 1.18 0.79 0.75 0.71 0.67 0.63 0.61 0.59 0.55 0.39	0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00
29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582 29.582	0.09416 0.14713 0.26156 0.58852 0.65210 0.72657 0.81456 0.91956 0.99261 1.04626 1.20106	0.65391 0.94163 1.47130 2.61564 5.88519 6.52098 7.26566 8.14559 9.19560 9.92610 10.46255 12.01058	6.00 5.00 4.00 3.00 2.00 1.90 1.80 1.70 1.60 1.54 1.50 1.40 1.00 Occupational Limit minimum Distance	0.06 0.05 0.04 0.03 0.02 0.02 0.018 0.017 0.016 0.015 0.015 0.014 0.010 Occupational Limit minimum Distance	2.36 1.97 1.57 1.18 0.79 0.75 0.71 0.67 0.63 0.61 0.59 0.55 0.39	0.01 0.00 0.00 0.00 0.00 0.00 0.002 0.001 0.001 0.001 0.001 0.001 0.001 0.001

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 Flyover Innovations LLC Model: Blumoo Test #: 140115

Test to: CFR47 (15.247), RSS-210 (DTS)

File: RFExp Blumoo

SN: ENG1

FCC ID#: 2ABHQ-BSHECP01

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