

Mikrotik	Model: RB922UAGS 5HPacT		Test Number: 140611				
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 ²						
				Antenna Gain (dBi)	32		
		Output Power	dBd + 2.17 = dBi		dBi to dBd	2.2	
Tx Frequency (MHz)	5785	Maximum (Watts)	0.990000	Antenna Gain (dBd)	29.83		
Cable Loss (dB)	0.0	(dBm)	29.96	Antenna minus cable (dBi)	32.00		
	Calculated ERP (mw)	951996.156	EIRP = Po(dBm) + Gain (dB)				
	Calculated EIRP (mw)	1569044.261	Radiated (EIRP) dBm		61.956		
			ERP = EIRP - 2.17 dB				
			Radiated (ERP) dBm		59.786		
Occupational Limit	Power density (S)						
5.00000 mW/cm ²	EIRP						
50.00000 W/m ²	----- = mW/cm ²						
General Public Limit	4 p r ²						
1.00000 mW/cm ²	r (cm) EIRP (mW)						
10.00000 W/m ²							
FCC radio frequency radiation exposure limits per 1.1310 (mW/cm2)							
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	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	
1569044.261	0.49944	4.99442	500.00	5.00	196.85	0.42	
1569044.261	0.78038	7.80379	400.00	4.00	157.48	0.33	
1569044.261	0.88790	8.87897	375.00	3.75	147.64	0.31	
1569044.261	0.99076	9.90760	355.00	3.55	139.76	0.30	
1569044.261	1.01927	10.19270	350.00	3.50	137.80	0.29	
1569044.261	1.38734	13.87340	300.00	3.00	118.11	0.25	
1569044.261	1.65105	16.51049	275.00	2.75	108.27	0.23	
1569044.261	1.99777	19.97769	250.00	2.50	98.43	0.21	
1569044.261	2.46638	24.66382	225.00	2.25	88.58	0.19	
1569044.261	3.12151	31.21514	200.00	2.00	78.74	0.17	
1569044.261	4.07708	40.77080	175.00	1.75	68.90	0.15	
1569044.261	4.87737	48.77366	160.00	1.60	62.99	0.13	
1569044.261	5.54936	55.49359	150.00	1.50	59.06	0.13	
1569044.261	7.99108	79.91077	125.00	1.25	49.21	0.10	
1569044.261	12.48606	124.86057	100.00	1.00	39.37	0.08	
1569044.261	22.19744	221.97436	75.00	0.75	29.53	0.06	
1569044.261	49.94423	499.44230	50.00	0.50	19.69	0.04	
			Occupational Limit minimum	Occupational Limit minimum	Public Limit	Public Limit	
			Distance	Distance	minimum	minimum distance	
			(meters)	(cm / inches)	distance (meters)	(cm / inches)	
			300-1,500	N/A	N/A	N/A	
			1,500-10,000	1.60	160 / 63	3.55	355 / 140

Rogers Labs, Inc.
4405 W. 259th Terrace
Louisburg, KS 66053
Phone/Fax: (913) 837-3214
Revision 1

Mikrotiks SIA
Model: RB922UAGS-5HPac-T-MM
Test #: 140611
Test to: CFR47 (15.247)
File: RFExp RB922UAGS5HPacTNM

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