

Mikrotik	Model: 951G-2HnD	Test Number: 120910				
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 <sup>2</sup>					
		Output Power		dBd + 2.17 = dBi	Antenna Gain (dBi)	1
Tx Frequency (MHz)	2437	Maximum (Watts)	0.948683		dBi to dBd	2.2
					Antenna Gain (dBd)	-1.17
Cable Loss (dB)	0.0	(dBm)	29.77		Antenna minus cable (dBi)	1.00
	Calculated ERP (mw)	724.638		EIRP = Po(dBm) + Gain (dB)		
	Calculated EIRP (mw)	1194.322			Radiated (EIRP) dBm	30.771
				ERP = EIRP - 2.17 dB		
	<b>Occupational Limit</b>				Radiated (ERP) dBm	28.601
	5.00000 mW/cm <sup>2</sup>	<div style="border: 1px solid black; padding: 5px;">           Power density (S)            EIRP            ----- = mW/cm<sup>2</sup>  <math>4 \pi r^2</math>            r (cm) EIRP (mW)         </div>				
	50.00000 W/m <sup>2</sup>					
	<b>General Public Limit</b>					
	1.00000 mW/cm <sup>2</sup>					
	10.00000 W/m <sup>2</sup>					
FCC radio frequency radiation exposure limits per 1.1310 (mW/cm <sup>2</sup> )						
	Frequency (MHz)	Occupational Limit	Public Limit			
	300-1,500	ƒ300	ƒ1500			
	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/cm <sup>2</sup> )	8.123333333	1.624666667			
	300-1,500 (W/m <sup>2</sup> )	81.233333333	16.246666667			
	1,500-10,000 (mW/cm <sup>2</sup> )	5	1			
	1,500-10,000 (W/m <sup>2</sup> )	50	10			
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm <sup>2</sup>	W/m <sup>2</sup>	cm	meter	inches	Feet
1194.322	0.00038	0.00380	500.00	5.00	196.85	0.42
1194.322	0.00059	0.00594	400.00	4.00	157.48	0.33
1194.322	0.00106	0.01056	300.00	3.00	118.11	0.25
1194.322	0.00238	0.02376	200.00	2.00	78.74	0.17
1194.322	0.00310	0.03103	175.00	1.75	68.90	0.15
1194.322	0.00422	0.04224	150.00	1.50	59.06	0.13
1194.322	0.00471	0.04713	142.00	1.42	55.91	0.12
1194.322	0.00660	0.06600	120.00	1.20	47.24	0.10
1194.322	0.00785	0.07855	110.00	1.10	43.31	0.09
1194.322	0.00815	0.08148	108.00	1.08	42.52	0.09
1194.322	0.00862	0.08621	105.00	1.05	41.34	0.09
1194.322	0.00914	0.09135	102.00	1.02	40.16	0.09
1194.322	0.00950	0.09504	100.00	1.00	39.37	0.08
1194.322	0.01690	0.16896	75.00	0.75	29.53	0.06
1194.322	0.02395	0.23946	63.00	0.63	24.80	0.05
1194.322	0.02640	0.26400	60.00	0.60	23.62	0.05
1194.322	0.10560	1.05601	30.00	0.30	11.81	0.03
			Occupational Limit minimum Distance (meters)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (meters)	Public Limit minimum distance (cm / inches)
	Frequency (MHz)					
	300-1,500		N/A	N/A	N/A	N/A
	1,500-10,000				0.30	30 / 11.8

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 Revision 1

Mikrotik SIA  
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 Test to: CFR47 (15.247)  
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