

Mikrotik	Model: RB751G-2HnD		Test Number: 120525																					
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)	8.5																			
		Output Power		dBd + 2.17 = dBi	dBi to dBd 2.2																			
Tx Frequency (MHz)	2437	Maximum (Watts)	0.805378	Antenna Gain (dBd)	6.33																			
Cable Loss (dB)	0.0	(dBm)	29.06	Antenna minus cable (dBi)	8.50																			
	Calculated ERP (mw)	3459.394		EIRP = Po(dBm) + Gain (dB)																				
	Calculated EIRP (mw)	5701.643		Radiated (EIRP) dBm	37.560																			
				ERP = EIRP - 2.17 dB																				
				Radiated (ERP) dBm	35.390																			
Occupational Limit	<table border="1"> <tr> <td>5.00000</td> <td>mW/cm²</td> </tr> <tr> <td>50.00000</td> <td>W/m²</td> </tr> <tr> <td colspan="2">General Public Limit</td> </tr> <tr> <td>1.00000</td> <td>mW/cm²</td> </tr> <tr> <td>10.00000</td> <td>W/m²</td> </tr> </table>						5.00000	mW/cm ²	50.00000	W/m ²	General Public Limit		1.00000	mW/cm ²	10.00000	W/m ²								
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EIRP	S	S	Distance	Distance	Distance	Distance																		
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet																		
5701.643	0.00181	0.01815	500.00	5.00	196.85	0.42																		
5701.643	0.00284	0.02836	400.00	4.00	157.48	0.33																		
5701.643	0.00504	0.05041	300.00	3.00	118.11	0.25																		
5701.643	0.01134	0.11343	200.00	2.00	78.74	0.17																		
5701.643	0.04537	0.45372	100.00	1.00	39.37	0.08																		
5701.643	0.05602	0.56015	90.00	0.90	35.43	0.08																		
5701.643	0.07089	0.70894	80.00	0.80	31.50	0.07																		
5701.643	0.09260	0.92596	70.00	0.70	27.56	0.06																		
5701.643	0.12603	1.26034	60.00	0.60	23.62	0.05																		
5701.643	0.18149	1.81489	50.00	0.50	19.69	0.04																		
5701.643	0.28358	2.83576	40.00	0.40	15.75	0.03																		
5701.643	0.50414	5.04136	30.00	0.30	11.81	0.03																		
5701.643	1.02885	10.28849	21.00	0.21	8.27	0.02																		
5701.643	1.13431	11.34306	20.00	0.20	7.87	0.02																		
5701.643	4.53722	45.37223	10.00	0.10	3.94	0.01																		
5701.643	5.02739	50.27394	9.50	0.10	3.74	0.01																		
5701.643	5.60151	56.01510	9.00	0.09	3.54	0.01																		
			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	0.10	9.5 / 3.74	0.21	21 / 8.3																		

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

MIKROTIK
Model: RB751G-2HnD
Test #: 120525
Test to: FCC (15.247)
File: RFExp RB751G2HnD

FCC ID#: TV7RB751G-2HND
SN: 2F7A013F38F9
Date: June 12, 2012
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