Mikrotik	Model: RouterBOARD 9121	R-2nD-LTm T	est Number:	171228		
MPE Calculator	MPE uses EIRP for calculati	on. 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/cn	n^2				
					Antenna Gain (dBi)	
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2
x Frequency (MHz)	2437	Maximum (Watts)	0.032572	<u>!</u>	Antenna Gain (dBd)	7.
Cable Loss (dB)	0.0	(dBm)	15.1		Antenna minus cable (dBi)	10.0
	Calculated ERP (mw)			EIRP = Po(dBM) + Gain (dB)		
	Calculated EIRP (mw)	325.717			Radiated (EIRP) dBm	25.1
		Power density (S)		ERP = EIRP - 2.17 dB		
					Radiated (ERP) dBm	22.9
		EIRP = mW/cm/				
		4 p r^2	`2			
		4012				
		EIRP (mW), r (cm)				
	Occupational Limit		FCC radio frequency radiation exposure	limits per 1 1310		
5		Eraguanay (MHz)		1		
		Frequency (MHz)	Occupational Limit (mW/cm²)	Public Limit (mW/cm²)		
50		300-1,500	f/300	f/1500		
	General Public Limit	1,500-10,000	5	l l		
1	mW/cm ²					
10	W/m ²					
	Occupational Limit		IC radio frequency radiation exposure lin	nits per RSS-102		
$0.6455f^{0.5}$	W/m ²	Frequency (MHz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)		
31.86574		100-6,000	$0.6455 f^{0.5}$			
	General Public Limit	6,000-15,000	50			
$0.02619f^{0.6834}$	W/m^2	48-300		1.291		
5.40397	W/m ²	300-6,000		$0.02619f^{0.6834}$		
3.10377	VV/III	6,000-15,000	50	10		
		0,000 15,000	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet
325.717	0.00259	0.026	100.00	1.00	39.37	3.28
325.717	0.00320	0.032	90.00	0.90	35.43	2.95
325.717	0.00405	0.040	80.00	0.80	31.50	2.62
325.717	0.00529	0.053	70.00	0.70	27.56	2.30
325.717	0.00720	0.072	60.00	0.60	23.62	1.97
325.717	0.01037	0.104	50.00	0.50	19.69	1.64
325.717	0.01620	0.162	40.00	0.40	15.75	1.31
325.717	0.02880	0.288	30.00	0.30	11.81	0.98
325.717	0.04147	0.415	25.00	0.25	9.84	0.82
325.717	0.06480	0.648	20.00	0.20	7.87	0.66
325.717	0.11520	1.152	15.00	0.150	5.91	0.49
325.717	0.25920	2.592	10.00	0.100	3.94	0.33
325.717	0.32000	3.200	9.00	0.090	3.54	0.30
325.717	0.40500	4.050	8.00	0.080	3.15	0.26
325.717	0.52897	5.290	7.00	0.070	2.76	0.23
325.717	0.71999	7.200	6.00	0.060	2.36	0.20
325.717	1.03679	10.368	5.00	0.050	1.97	0.16
		5 200	Occupational Limit minimum Distance			
		Frequency (MHz)	(meters)	Public Limit minimum distance (meters)		
		47CFR 1.1310	0.20	0.20		
		i l				

Rogers Labs, Inc. Mikrotikls SIA

4405 W. 259th Terrace Model: RouterBOARD 912R-2nD-LTm

Louisburg, KS 66053 Test #: 171228

Phone/Fax: (913) 837-3214 Test to: 47CFR 15.247, RSS-247 Revision 1 File: RB912R2NDLTM FCC MPE S/N: 27895

FCC ID: TV7RB912R-2NDLTM

IC: 7442A-912R2NDLTM Date: February 21, 2018

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