MPE Calculator	Mikrotik		,	Test Number	100615	
		culation. EIRP is based on TX power added to the antenna ga				
		compared to an isotro				
	$S = power density in mW/cm^2$				Antenna Gain (dBi)	23
	_	Output Power	Output Power $dBd + 2.17 = dBi$		dBi to dBd	2.17
Tx Frequency (MHz)	5785	(Watts)	0.200000			20.83
			Antenna minus cable (dBi)			23.00
Cable Loss (dB)	0.0	(dBm)	(dBm) 23.01			
Calculated ERP (mw) Calculated EIRP (mw)					Radiated (EIRP) dBm	46.010
		9905.246				
				1	Radiated (ERP) dBm	43.840
Occupational Limit		Power density (S) = EIRP				
5.00000	$\frac{\text{mW/cm}^2}{\text{embed}^2} = \frac{\text{EIRP}}{\text{mW/cm}^2}$					
		4 n r^2	W/CIII Z			
General Public Limit		[r (cm), EIRP (mW)]				
1.00000	mW/cm ²	L				
		FOC I' (I'				
		FCC radio frequency radiation exposure				
		Frequency (MHz)	Occupational Limit f/300		Public Limit	
		300-1,500			f/1500	
		1,500-100,000 5		1		
		FCC radio frequency radiation exposure			limits per 1 1310	
		T CC Tadio ii C	· · · · · ·		Public Limit @ Tx Freq	
		Frequency (MHz)	Tx Freq (mW/cm^2)		(mW/cm^2)	
		300-1,500	19.28333333		3.856666667	
			1,500-100,000 5		1	
		1,500-100,000	J		1	
		EIRP	Distance cm 70.00 60.00 57.00 55.00		Distance	S
		milliwatts			inches	mW/cm ²
		39905.246			27.56	0.64807
		39905.246			23.62	0.88210
		39905.246			22.44	0.97740
		39905.246			21.65	1.04977
		39905.246		.00	19.69	1.27022
		39905.246		.00	15.75	1.98472
		39905.246		.00	11.81	3.52840
		39905.246		.00	11.42	3.77593
		39905.246		.00	11.02	4.05046
		39905.246		.00	10.63	4.35605
		39905.246		.00	10.24	4.69757
		39905.246		.00	9.84 9.45	5.08089
		39905.246 39905.246		.00	9.45 7.87	5.51312 7.93890
		39905.246		.00	5.91	14.11359
		37703.240	13	.00	5.71	17.11333
		_	Occupational Limit		Public Limit minimum	
		Frequency (MHz)	minimum Distance (cm)		distance (cm)	
		300-1,500		/A	N/A	
		1,500-10,000		cm	57 cm	

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

MIKROTIK Model: RB711-5Hn Test #: 100615 Test to: FCC (15.247) File: RFExp RB7115Hn FCC ID#: TV7RB711-5HN SN: 247401DD498BC

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