

Mikrotik	Model: SXTG-2HnD	Test Number: 120716				
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)		6
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.2
Tx Frequency (MHz)	2437	Maximum (Watts)	1.000000		Antenna Gain (dBd)	3.83
Cable Loss (dB)	0.0	(dBm)	30.00		Antenna minus cable (dBi)	6.00
	Calculated ERP (mw)	2415.461		EIRP = Po(dBm) + Gain (dB)		
	Calculated EIRP (mw)	3981.072			Radiated (EIRP) dBm	36.000
				ERP = EIRP - 2.17 dB		
					Radiated (ERP) dBm	33.830
Occupational Limit	Power density (S)					
5.00000 mW/cm ²	EIRP					
50.00000 W/m ²	----- = mW/cm ²					
	4 p r ²					
General Public Limit	r (cm) EIRP (mW)					
1.00000 mW/cm ²						
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)	8.123333333	1.624666667			
	300-1,500 (W/m2)	81.233333333	16.246666667			
	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
3981.072	0.00127	0.01267	500.00	5.00	196.85	0.42
3981.072	0.00198	0.01980	400.00	4.00	157.48	0.33
3981.072	0.00352	0.03520	300.00	3.00	118.11	0.25
3981.072	0.00792	0.07920	200.00	2.00	78.74	0.17
3981.072	0.01034	0.10345	175.00	1.75	68.90	0.15
3981.072	0.01408	0.14080	150.00	1.50	59.06	0.13
3981.072	0.03168	0.31680	100.00	1.00	39.37	0.08
3981.072	0.03911	0.39112	90.00	0.90	35.43	0.08
3981.072	0.04950	0.49501	80.00	0.80	31.50	0.07
3981.072	0.06465	0.64654	70.00	0.70	27.56	0.06
3981.072	0.08800	0.88001	60.00	0.60	23.62	0.05
3981.072	0.12672	1.26721	50.00	0.50	19.69	0.04
3981.072	0.19800	1.98002	40.00	0.40	15.75	0.03
3981.072	0.35200	3.52004	30.00	0.30	11.81	0.03
3981.072	0.79201	7.92009	20.00	0.20	7.87	0.02
3981.072	3.16804	31.68036	10.00	0.10	3.94	0.01
3981.072	9.75080	97.50804	5.70	0.06	2.24	0.00
			Occupational Limit minimum	Occupational Limit minimum	Public Limit	Public Limit
			Distance	Distance	minimum	minimum distance
	Frequency (MHz)		(meters)	(cm / inches)	distance (meters)	(cm / inches)
	300-1,500		N/A	N/A	N/A	N/A
	1,500-10,000		0.06	5.6 / 2.2	0.20	20 / 7.8

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Revision 1

Mikrotik SIA
Model: RBSXTG-2HnD
Test #: 120716
Test to: CFR47 (15.247)
File: RFExp RBSXTG 2HND

SN: 399501DD0C31
FCC ID#: TV7SXTG-2HND
Date: August 15, 2012
Page 1 of 1