Tx Frequency (MHz) Cable Loss (dB) Calculated Calculated Occupatio 5.00000 mV 50.00000 W	Bi = dB gain i = power der 5785 0.0 d ERP (mw) i EIRP (mw) ional Limit nW/cm ² V/m ² Public Limit nW/cm ²	Compared to an isotropic radiasity in mW/cm^2 Output Power Maximum (Watts) (dBm) 199526.231 328851.631 Power density (S) EIRP	o frequency radiation exposure lin	dBd + 2.17 = dBi Antenna EIRP = Po(dBM) + Gain (dB) Rac ERP = EIRP - 2.17 dB	Antenna Gain (dBi) dBi to dBd Antenna Gain (dBd) a minus cable (dBi) diated (EIRP) dBm adiated (ERP) dBm	32.29.83 29.83 32.00 55.170 53.000
Tx Frequency (MHz) Cable Loss (dB) Calculated Calculated Occupatio 5.00000 mV 50.00000 W General Pt 1.00000 mV	5785 0.0 d ERP (mw) i EIRP (mw) ional Limit nW/cm² Public Limit nW/cm²	Output Power Maximum (Watts) (dBm) 199526.231 328851.631 Power density (S) EIRP==mW/cm^2 4 p r^2 r (cm) EIRP (mW) FCC radi Frequency (MHz)	23.17	dBd + 2.17 = dBi Antenna $EIRP = Po(dBM) + Gain (dB)$ Rac $ERP = EIRP - 2.17 dB$	dBi to dBd Antenna Gain (dBd) a minus cable (dBi) diated (EIRP) dBm	2 29.8 32.0 55.17
Tx Frequency (MHz) Cable Loss (dB) Calculated Calculated Occupatio 5.00000 mV 50.00000 W General Pt 1.00000 mV	5785 0.0 d ERP (mw) d EIRP (mw) i EIRP (mw) ional Limit nW/cm ² V/m ² Public Limit nW/cm ²	Output Power Maximum (Watts) (dBm) 199526.231 328851.631 Power density (S) EIRP==mW/cm^2 4 p r^2 r (cm) EIRP (mW) FCC radi Frequency (MHz)	23.17	dBd + 2.17 = dBi Antenna $EIRP = Po(dBM) + Gain (dB)$ Rac $ERP = EIRP - 2.17 dB$	dBi to dBd Antenna Gain (dBd) a minus cable (dBi) diated (EIRP) dBm	2. 29.8 32.0 55.17
Cable Loss (dB) Calculated Calculated Occupatio 5.00000 mV 50.00000 W General Pt 1.00000 mV	0.0 d ERP (mw) d EIRP (mw) d EIRP (mw) dional Limit nW/cm ² V/m ² Public Limit nW/cm ²	Maximum (Watts) (dBm) 199526.231 328851.631 Power density (S) EIRP===mW/cm^2 4 p r^2 r (cm) EIRP (mW) FCC radi Frequency (MHz)	23.17	dBd + 2.17 = dBi Antenna $EIRP = Po(dBM) + Gain (dB)$ Rac $ERP = EIRP - 2.17 dB$	dBi to dBd Antenna Gain (dBd) a minus cable (dBi) diated (EIRP) dBm	2. 29.8 32.0 55.17
Cable Loss (dB) Calculated Calculated Occupatio 5.00000 mV 50.00000 W General Pt 1.00000 mV	0.0 d ERP (mw) d EIRP (mw) d EIRP (mw) dional Limit nW/cm ² V/m ² Public Limit nW/cm ²	Maximum (Watts) (dBm) 199526.231 328851.631 Power density (S) EIRP===mW/cm^2 4 p r^2 r (cm) EIRP (mW) FCC radi Frequency (MHz)	23.17	Antenna $EIRP = Po(dBM) + Gain (dB)$ Rac $ERP = EIRP - 2.17 dB$	Antenna Gain (dBd) a minus cable (dBi) diated (EIRP) dBm	29.8 32.0 55.17
Cable Loss (dB) Calculated Calculated Occupatio 5.00000 mV 50.00000 W General Pt 1.00000 mV	0.0 d ERP (mw) d EIRP (mw) d EIRP (mw) dional Limit nW/cm ² V/m ² Public Limit nW/cm ²	(dBm) 199526.231 328851.631 Power density (S) EIRP = mW/cm^2 4 p r^2 r (cm) EIRP (mW) FCC radi Frequency (MHz)	23.17	Antenna EIRP = Po(dBM) + Gain (dB) Rac ERP = EIRP - 2.17 dB	a minus cable (dBi)	32.0 55.17
Calculated Calculated Calculated Cocupatio 5.00000 mV 50.00000 W General Pt 1.00000 mV	d ERP (mw) i EIRP (mw) ional Limit nW/cm ² V/m ² Public Limit nW/cm ²	199526.231 328851.631 Power density (S) EIRP = mW/cm^2 4 p r^2 r (cm) EIRP (mW) FCC radi Frequency (MHz)		EIRP = Po(dBM) + Gain (dB) Rac ERP = EIRP - 2.17 dB	diated (EIRP) dBm	55.17
Occupatio 5.00000 mV 50.00000 W General Pt 1.00000 mV	ional Limit hW/cm ² V/m ² Public Limit hW/cm ²	328851.631 Power density (S) EIRP = mW/cm^2 4 p r^2 r (cm) EIRP (mW) FCC radi Frequency (MHz)	o frequency radiation exposure li	Rac ERP = EIRP - 2.17 dB		
Occupatio 5.00000 mV 50.00000 W General Pt 1.00000 mV	ional Limit hW/cm ² V/m ² Public Limit hW/cm ²	328851.631 Power density (S) EIRP = mW/cm^2 4 p r^2 r (cm) EIRP (mW) FCC radi Frequency (MHz)	o frequency radiation exposure li	Rac ERP = EIRP - 2.17 dB		
Occupatio 5.00000 mV 50.00000 W General Pt 1.00000 mV	ional Limit nW/cm ² V/m ² Public Limit nW/cm ²	Power density (S) EIRP = mW/cm^2 4 p r^2 r (cm) EIRP (mW) FCC radi Frequency (MHz)	o frequency radiation exposure li	ERP = EIRP - 2.17 dB		
5.00000 mV 50.00000 W General Pt 1.00000 mV	nW/cm ² V/m ² Public Limit nW/cm ²	EIRP = mW/cm^2 4 p r^2 r (cm) EIRP (mW) FCC radi	o frequency radiation exposure li		adiated (ERP) dBm	53.00
5.00000 mV 50.00000 W General Pt 1.00000 mV	nW/cm ² V/m ² Public Limit nW/cm ²	= mW/cm^2 4 p r^2 r (cm) EIRP (mW) FCC radi	o frequency radiation exposure li	110	idiaca (Era) disin	33.00
50.00000 W General Po 1.00000 mV	V/m ² Public Limit nW/cm ²	= mW/cm^2 4 p r^2 r (cm) EIRP (mW) FCC radi	o frequency radiation exposure li			
General Po 1.00000 mV	Public Limit nW/cm ²	4 p r^2 r (cm) EIRP (mW) FCC radi Frequency (MHz)	o frequency radiation exposure li			
1.00000 mV	nW/cm ²	r (cm) EIRP (mW) FCC radi Frequency (MHz)	o frequency radiation exposure lin			
		FCC radi	o frequency radiation exposure lin			
10.00000 W.	V/m ²	FCC radi	o frequency radiation exposure lin			
		Frequency (MHz)	o frequency radiation exposure lir			
		Frequency (MHz)		nits per 1.1310		
			Occupational Limit	Public Limit	1	
		300-1,500	f/300	f/1500	1	
		1,500-10,000	5	1		
		1,500 10,000		-		
		FCC radi	o frequency radiation exposure lir	nits per 1 1310		
		1001111	o nequency rumanes especiale in	_		
				Public Limit @ Tx Freq		
		Frequency (MHz)	Occupational Limit @ Tx Freq	(mW/cm ²)		
		300-1,500 (mW/cm2)	19.28333333	3.856666667		
		300-1,500 (W/m2)	192.8333333	38.56666667		
		1,500-10,000 (mW/cm2)	5	1		
		1,500-10,000 (W/m2)	50	10		
EIRP	S	S	D:	D:	Distance	Distance
			Distance	Distance	Distance	
	mW/cm ²	W/m ²	cm	meter	inches	Feet
	0.10468	1.04677	500.00	5.00	196.85	0.42
	0.16356	1.63557	400.00	4.00	157.48	0.33
	0.29077	2.90769	300.00	3.00	118.11	0.25
	0.41871	4.18707	250.00	2.50	98.43	0.21
	0.65423	6.54230	200.00	2.00	78.74	0.17
	0.85450	8.54504	175.00	1.75	68.90	0.15
	1.00957	10.09575	161.00	1.61	63.39	0.13
	1.16307	11.63075	150.00	1.50	59.06	0.13
	2.61692	26.16918	100.00	1.00	39.37	0.08
	3.23076	32.30763	90.00	0.90	35.43	0.08
	4.08893	40.88935	80.00	0.80	31.50	0.07
	4.65230	46.52299	75.00	0.75	29.53	0.06
	4.77889	47.78886	74.00	0.74	29.13	0.06
	4.91071	49.10711	73.00	0.73	28.74	0.06
	5.04807	50.48067	72.00	0.72	28.35	0.06
	5.19127	51.91268	71.00	0.71	27.95	0.06
328851.631	5.34065	53.40649	70.00	0.70	27.56	0.06
		Francisco (ATIL)	Occupational Limit minimum Distance	Occupational Limit minimum Distance	Public Limit minimum	Public Limit minimum distance (cm /
		Frequency (MHz)	(meters)	(cm / inches)	distance (meters)	inches)
		300-1,500 1,500-10,000	N/A 0.72	N/A 72 / 28.35	N/A 1.61	N/A

Rogers Labs, Inc. 4405 W. 259th Terrace Louisburg, KS 66053 Phone/Fax: (913) 837-3214 Revision 1 MIKROTIK Model: Groove A-5Hn Test #: 110428 Test to: FCC (15.247) File: RFExp Groove A5Hn

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