

C2Ag	ISN-1	Test Number:	150806A			
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					
		Output Power	dBd + 2.17 = dBi	Antenna Gain (dBi)		5
Tx Frequency (MHz)	915	Maximum (Watts)	1.000000	dBi to dBd		2.2
Cable Loss (dB)	0.0	(dBm)	30.00	Antenna Gain (dBd)		2.83
				Antenna minus cable (dBi)		5.00
Calculated ERP (mw)	1918.669			EIRP = Po(dBm) + Gain (dB)		
Calculated EIRP (mw)	3162.278				Radiated (EIRP) dBm	35.000
				ERP = EIRP - 2.17 dB		
Occupational Limit		Power density (S) EIRP ----- = mW/cm ² 4 π r ² r (cm) EIRP (mW)			Radiated (ERP) dBm	32.830
0.6455f ^{0.5} W/m ²						
19.52571 W/m ²						
General Public Limit						
0.02619f ^{0.6834} W/m ²						
2.76760 W/m ²						
FCC radio frequency radiation exposure limits per 1.1310						
	Frequency (MHz)	Occupational Limit	Public Limit			
	300-1,500	ƒ/300	ƒ/1500			
	1,500-10,000	5	1			
IC radio frequency radiation exposure limits per RSS-102						
	Frequency (MHz)	Occupational Limit (W/m ²)	Public Limit (W/m ²)			
	100-6,000	0.6455f ^{0.5}				
	6,000-15,000	50				
	48-300		1.291			
	300-6,000		0.02619f ^{0.6834}			
	6,000-15,000	50	10			
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m ²	cm	meter	inches	Feet
3162.278	0.03107	0.31067	90.00	0.90	35.43	2.95
3162.278	0.03932	0.39320	80.00	0.80	31.50	2.62
3162.278	0.05136	0.51356	70.00	0.70	27.56	2.30
3162.278	0.06990	0.69902	60.00	0.60	23.62	1.97
3162.278	0.10066	1.00658	50.00	0.50	19.69	1.64
3162.278	0.15728	1.57279	40.00	0.40	15.75	1.31
3162.278	0.27961	2.79607	30.00	0.30	11.81	0.98
3162.278	0.40263	4.02634	25.00	0.25	9.84	0.82
3162.278	0.62912	6.29115	20.00	0.20	7.87	0.66
3162.278	1.11843	11.18427	15.00	0.15	5.91	0.49
3162.278	1.90281	19.02806	11.50	0.115	4.53	0.38
3162.278	2.73053	27.30535	9.60	0.096	3.78	0.31
3162.278	3.10674	31.06741	9.00	0.090	3.54	0.30
3162.278	10.06584	100.65842	5.00	0.050	1.97	0.16
3162.278	15.72788	157.27879	4.00	0.040	1.57	0.13
3162.278	19.41713	194.17134	3.60	0.036	1.42	0.12
3162.278	27.96067	279.60673	3.00	0.030	1.18	0.10
		Frequency (MHz)	Occupational Limit minimum Distance (meters)	Occupational Limit minimum Distance (cm / inches)	Public Limit minimum distance (meters)	Public Limit minimum distance (cm / inches)
		300-1,500	0.12	11.5 / 4.53	0.30	30 / 11.8
		1,500-10,000	N/A	N/A	N/A	N/A

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

C2Ag, LLC
Model: ISN-1
Test #: 150806A
Test to: 47CFR (15.247), RSS-247
File: ISN1 RFExp

FCC ID: 2AFK4-ISN1
IC: 20563-ISN1
SN: ENG1
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