

Alligator Communications Inc.									
FCC ID: JIL2888									
FCC Part 101 MAS transmitter					Calculate mW/cm2 here. Enter frequency in MHz:				
RF Hazard Distance Calculation					Calculation of Limits from 1.1310 Table 1				
							Controlled	Uncontrolled	
							Ave 6 min	Ave 30 min	
mW/cm2 from Table1:		0.62	(E: 61 V/m)		F(MHz)	Actual F, MHz	Occ, mW/c2	Gen, mW/cm2	
					0.3-3	0.5	100.0	100.0	
Max RF Powe	TX Antenna	MPE distance	S, mW/cm@	Comment	3.0 - 30.0	5	180.0	36.0	
P, dBm	G, dBi	cm	at 20 cm		30.0-300	55	1.0	0.2	
					300-1500	928	3.1	0.62	
37.7	12.2	111.4	n/a		1500-100000	5555	5.0	1.0	
Basis of Calculations:					64	18.1	18.1	64.6	
E^2/3770 = S, mW/cm2									
E, V/m = (Pwatts*Ggain*30)^.5/d, meters									
d = ((Pwatts*G*30)/3770*S))^0.5			Pwatts*Ggain = 10^(PdBM-30+GdBi)/10)						
S@20cm = 20 log (MPE dist/20cm)									
NOTE: For mobile or fixed location transmitters, minimum separation distance is for FCC compliance is 20 cm, even if calculations indicate MPE distance is less									