

8-Mar-02									
Alvarion 5.8 GHz Spread Spectrum									
FCC ID: LKT-DS58									
Calculate mW/cm2 here. Enter frequency in MHz:									
RF Hazard Distance Calculation									
Calculation of Limits from 1.1310 Table 1									
								Controlled	Uncontrolle
								Ave 6 min	Ave 30 min
mW/cm2 from Table1:		1.00		F(MHz)		Actual F, MHz		Occ, mW/c2	Gen, mW/cm2
				0.3-3		1		100.0	100.0
Max RF Powe	TX Antenna	MPE		3.0 - 30.0		30		30.0	6.0
P, dBm	G, dBi	Safe Distance, cm		30.0-300		20		1.0	0.2
				300-1500		869		2.9	0.58
24.2	7.5	10.8	omni	1500-100000		1500		5.0	1.0
24.2	18.0	36.3	p2p sector						
18.0	18.0	17.8	p2mp sector						
24.2	29.0	128.9	p2p 2ft dish						
24.2	21.0	51.3	p2p integral	Enter P(watts)	Equivalent d	Enter dBm	Equivalent	Watts	
Basis of Calculations:									
				4	36.0	36.0	4.0		
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)									
NOTE: For mobile or fixed location transmitters, minimum separation distance is 20 cm,									
even if calculations indicate MPE distance is less									

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