

Silver Spring Networks										
900/2400 MHz FHSS Radio Module										
FCC ID: OWS-NIC45										
IC: OWS-NIC45										
							Calculate mW/cm2 here. Enter frequency in MHz:			
Calculation of Limits from 1.1310 Table 1										
S1 for 900 MHz		0.60	maximum	Manual RFx Dist., cm:	16.5				Controlled	Uncontrolled
S2 for 2400 MHz		1.00	maximum						Occ, mW/c2	Gen, mW/cm2
	F(MHz)						Actual F, MHz			
	0.3-3						0.5		100.0	100.0
	3.0 - 30.0						5		180.0	36.0
	30.0-300						55		1.0	0.2
	300-1500						902		3.0	0.60
	1500-100000						5805		5.0	1.0
Max RF Power	TX Antenna	MPE distance		S, mW/cm2 at	Comment 1	Comment 2				
P, dBm	G, dBi	cm		Manual RFx Dist.						
29.95	2.50	15.3		0.514	900 MHz FHSS					
22.73	3.5	5.8		0.123	2.4 GHz FHSS					
							Enter P(mW)	Equivalent dBm	Enter dBm	Equivalent Watts
				% 900MHz RFx	85.6%					
				% 2.4 GHz RFx	12.3%					
				Total RFx	97.91%					
Basis of Calculations:							555	27.44	29.52	895.4
E^2/3770 = S, mW/cm2										
E, V/m = (Pwatts*Ggain*30)^.5/d, meters										
d = ((Pwatts*G*30)/3770*S)^.5										
Pwatts*Ggain = 10^(PdBm-30+GdBi)/10										
S@dist2 = S@MPEdist(MPE/dist2)^2										
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										