

<b>Silver Spring Networks</b>										
900/2400 MHz FHSS /2.4 GHz DTS Radio										
FCC ID: OWS-NIC42										
IC: OWS-NIC42										
Calculate mW/cm2 here. Enter frequency in MHz:										
Calculation of Limits from 1.1310 Table 1										
<b>S1 for 900 MHz</b>		<b>0.60</b>	maximum	<b>Manual RFx Dist., cm:</b>	20			Controlled	Uncontrolled	
<b>S2 for 2400 MHz</b>		<b>1.00</b>	maximum			F(MHz)	<b>Actual F, MHz</b>	Occ, mW/c2	Gen, mW/cm2	
Max RF Power	TX Antenna	MPE distance		S, mW/cm2 at	Comment 1	Comment 2				
P, dBm	G, dBi	cm		Manual RFx Dist.						
							0.3-3	0.5	100.0	100.0
							3.0 - 30.0	5	180.0	36.0
							<b>30.0-300</b>	<b>55</b>	<b>1.0</b>	<b>0.2</b>
							300-1500	902	3.0	0.60
29.96	2.50	15.3		0.351	900 MHz FHSS		1500-100000	5805	5.0	1.0
22.41	3.5	5.6		0.078	2.4 GHz FHSS					
							<b>Enter P(mW)</b>	Equivalent dBm	<b>Enter dBm</b>	Equivalent Watts
							% 900MHz RFx	58.4%		
							% 2.4 GHz RFx	7.8%		
							Total RFx	66.18%		
<b>Basis of Calculations:</b>							<b>555</b>	<b>27.44</b>	<b>29.52</b>	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										
<b>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</b>										