

The CDR-915 module is a frequency hopping spread spectrum transmitter operating in the frequency band of 902 MHz to 928 MHz with 0.200 watt output power.						
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						
Antenna Gain (dBi)						
9						
Output Power						
dBd + 2.17 = dBi						
dBi to dBd						
2.17						
Tx Frequency (MHz)						
915						
(Watts)						
0.2000						
Antenna Gain (dBd)						
2.83						
Cable Loss (dB)						
0.0						
(dBm)						
23.01						
Antenna minus cable (dBi)						
9.00						
Calculated ERP (mw)						
963.896						
Radiated (ERP) dBm						
29.840						
Calculated EIRP (mw)						
1588.656						
Radiated (EIRP) dBm						
32.010						
Occupational Limit						
3.05						
mW/cm^2						
Power density (S)						
EIRP						
----- = mW/cm^2						
4 p r^2						
General Public Limit						
0.61						
mW/cm^2						
r (cm) EIRP (mW)						
FCC radio frequency radiation exposure limits per 1.1310						
Frequency (MHz)						
Occupational Limit						
Public Limit						
300-1,500						
f/300						
f/1500						
1,500-10,000						
5						
1						
EIRP						
Distance						
Distance						
S						
watts						
cm						
inches						
mW/cm^2						
1588.656						
100.00						
39.37						
0.01264						
1588.656						
75.00						
29.53						
0.02247						
1588.656						
50.00						
19.69						
0.05057						
1588.656						
40.00						
15.75						
0.07901						
1588.656						
35.00						
13.78						
0.10320						
1588.656						
30.00						
11.81						
0.14047						
1588.656						
25.00						
9.84						
0.20227						
1588.656						
24.75						
9.74						
0.20638						
1588.656						
24.50						
9.65						
0.21061						
1588.656						
24.25						
9.55						
0.21498						
1588.656						
24.00						
9.45						
0.21948						
1588.656						
23.75						
9.35						
0.22413						
1588.656						
23.50						
9.25						
0.22892						
1588.656						
23.25						
9.15						
0.23387						
1588.656						
23.00						
9.06						
0.23898						
1588.656						
22.00						
8.66						
0.26120						
1588.656						
21.00						
8.27						
0.28667						
1588.656						
20.00						
7.87						
0.31605						
1588.656						
19.00						
7.48						
0.35020						
1588.656						
18.00						
7.09						
0.39019						
1588.656						
17.00						
6.69						
0.43744						
1588.656						
16.00						
6.30						
0.49383						
1588.656						
15.00						
5.91						
0.56187						
1588.656						
14.50						
5.71						
0.60129						
1588.656						
10.00						
3.94						
1.26421						
1588.656						
7.00						
2.76						
2.58003						
1588.656						
6.50						
2.56						
2.99222						