

RF Safety Exhibit

Revision: 02

Date: 15 May 2003

Equipment: WaveCom TR2126SE MMDS/MDS Transceiver

FCC ID: OPPTR2126SE

For radio transmitters in the 2.150 to 2.162 GHz band, paragraph 1.1310 limits maximum permissible exposure (MPE) to 1 mW/cm^2 for uncontrolled environments.

The maximum safe distance from the antenna at which MPE is met or exceeded is calculated from the equation relating field strength in V/m, transmit power in Watts, transmit antenna gain, and separation distance in meters:

Basis of calculations:

Safe Distance_{meters} for 1 mW/cm^2 MPE =

$$(P_{\text{Watts}} \times 10^{(\text{Antenna Gain}_{\text{dBi}}/10) \times 30})^{0.5} / 61.4 \text{ V/m}$$

Transceiver Power		Antenna Type	Antenna Gain [dBi]	Safe Distance [meters]
[Watts]	[dBm]			
0.316	+25	Flat planar array	12	0.200
0.316	+25	Flat planar array	18	0.398
0.316	+25	Dipole/parabolic reflector	21	0.562
0.316	+25	Dipole/parabolic reflector	24	0.795

Installation Requirements:

The TR2126SE is used with a user-supplied antenna. A self-adhesive RF exposure label is supplied with each TR2126SE unit for the user to affix to their antenna. Installation of the TR2126SE and affixing of the RF exposure label to the antenna is described in the user manual, which is supplied with each TR2126SE. See section 2.2.2 on page 9 of "INSTALLATION AND OPERATION GUIDE FOR SYSTEM OPERATORS"

The following statement is included in the user manual and on the label to be attached to the antenna:

"CAUTION: To comply with FCC RF exposure requirements in section 1.1307, a minimum separation distance of 1.5 meters is required between this antenna and all persons."