

RF Exposure Measurement

1. Applied Standards

FCC PART 1.1307, 1.1310, 2.1091, 2.1093 RF EXPOSURE

2. Calculation for Maximum Permissible Exposure (MPE)

From FCC 1.1310 Table 1B, the maximum permissible RF exposure for an uncontrolled environment is 1 mW/cm². The actual power density for the EUT with the antenna is calculated as shown below. The EUT is a professionally installed, fixed, point-to-point operating system.

$$S = (P \times G) / (4 \times \pi \times d^2)$$

where:

S = power density

P = transmitter conducted power in (W)

G = antenna numeric gain

d = distance to radiation center (m)

Antenna Manufacturer	Antenna Type	Antenna Model	Gain (dBi)	Numeric Gain	Power (mW)	Separation Distance (cm)	Power Density (W/m ²)	Power Density (mW/cm ²)
D-Link Corp	1/4 Dipole Sleeve	WSS002	2	1.58489	35.51	20	0.112	0.0112

WARNING:

It is the responsibility of the professional installer to ensure that when using the outdoor antenna kits in the United States (or where FCC rules apply), only the antenna specified above may be used. The use of any other antenna is expressly forbidden in accordance with FCC rules CFR 47 part 15.204.

NOTICE:

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits for an uncontrolled environment when installed as directed. This equipment should be installed and operated with the D-Link Corp WSS002 in a fixed-mount configuration, installed with a minimum of 20 cm of separation distance between the antenna and all persons during normal operation