

Maximum Permissible Exposure (MPE) Compliance

BDA-PCS/A-.5/2W-70-A
FCC ID Q8KPCS2W70A

At the maximum operating frequency of 1945MHz (Downlink) and 1865MHz (Uplink) the MPE limit for the General Population/Uncontrolled Exposure is as follows: Downlink = 1.0mW/cm² and Uplink = 1.0mW/cm².

The analysis is provided below.

Power Density (S) = $EIRP / (4\pi R^2)$, Therefore, $R \geq \sqrt{EIRP / S \times 4\pi}$

From the above calculations, with:

Downlink Maximum Antenna Gain = 2dBi
Downlink Maximum output power = 27dBm

Uplink Maximum Antenna Gain = 11dBi
Uplink Maximum output power = 18dBm

S = 1.0 mW/cm²
EIRP = 29dBm or .794W (worst case)

S = 1.0 mW/cm²
EIRP = 29dBm or .794W (worst case)

Therefore,
R= 7.95cm (Downlink)

R= 7.95cm (Uplink)

These are the minimum safe distances for the general population for each antenna.

Maximum Permissible Exposure (MPE) Compliance

BDA-PCS/B-.5/2W-70-A
FCC ID Q8KPCS2W70A

At the maximum operating frequency of 1965MHz (Downlink) and 1885MHz (Uplink) the MPE limit for the General Population/Uncontrolled Exposure is as follows: Downlink = 1.0mW/cm² and Uplink = 1.0mW/cm².

The analysis is provided below.

Power Density (S) = $EIRP / (4\pi R^2)$, Therefore, $R \geq \sqrt{EIRP / S \times 4\pi}$

From the above calculations, with:

Downlink Maximum Antenna Gain = 2dBi
Downlink Maximum output power = 29dBm

Uplink Maximum Antenna Gain = 11dBi
Uplink Maximum output power = 21dBm

S = 1.0 mW/cm²
EIRP = 29dBm or .794W (worst case)

S = 1.0 mW/cm²
EIRP = 29dBm or .794W (worst case)

Therefore,
R= 7.95cm (Downlink)

R= 7.95cm (Uplink)

These are the minimum safe distances for the general population for each antenna.

Maximum Permissible Exposure (MPE) Compliance

BDA-PCS/C-.5/2W-70-A
FCC ID Q8KPCS2W70A

At the maximum operating frequency of 1990MHz (Downlink) and 1910MHz (Uplink) the MPE limit for the General Population/Uncontrolled Exposure is as follows: Downlink = 1.0mW/cm² and Uplink = 1.0mW/cm².

The analysis is provided below.

Power Density (S) = $EIRP / (4\pi R^2)$, Therefore, $R \geq \sqrt{EIRP / S \times 4\pi}$

From the above calculations, with:

Downlink Maximum Antenna Gain = 2dBi
Downlink Maximum output power = 29dBm

Uplink Maximum Antenna Gain = 11dBi
Uplink Maximum output power = 21dBm

S = 1.0 mW/cm²
EIRP = 29dBm or .794W (worst case)

S = 1.0 mW/cm²
EIRP = 29dBm or .794W (worst case)

Therefore,
R= 7.95cm (Downlink)

R= 7.95cm (Uplink)

These are the minimum safe distances for the general population for each antenna.

Maximum Permissible Exposure (MPE) Compliance

BDA-PCS/D-.5/2W-70-A
FCC ID Q8KPCS2W70A

At the maximum operating frequency of 1950MHz (Downlink) and 1870MHz (Uplink) the MPE limit for the General Population/Uncontrolled Exposure is as follows: Downlink = 1.0mW/cm² and Uplink = 1.0mW/cm².

The analysis is provided below.

Power Density (S) = $EIRP / (4\pi R^2)$, Therefore, $R \geq \sqrt{EIRP / S \times 4\pi}$

From the above calculations, with:

Downlink Maximum Antenna Gain = 2dBi
Downlink Maximum output power = 27dBm

Uplink Maximum Antenna Gain = 11dBi
Uplink Maximum output power = 18dBm

S = 1.0 mW/cm²
EIRP = 29dBm or 0.794W (worst case)

S = 1.0 mW/cm²
EIRP = 29dBm or 0.794W (worst case)

Therefore,
R= 7.95cm (Downlink)

R= 7.95cm (Uplink)

These are the minimum safe distances for the general population for each antenna.

Maximum Permissible Exposure (MPE) Compliance

BDA-PCS/E-.5/2W-70-A
FCC ID Q8KPCS2W70A

At the maximum operating frequency of 1970MHz (Downlink) and 1890MHz (Uplink) the MPE limit for the General Population/Uncontrolled Exposure is as follows: Downlink = 1.0mW/cm² and Uplink = 1.0mW/cm².

The analysis is provided below.

Power Density (S) = $EIRP / (4\pi R^2)$, Therefore, $R \geq \sqrt{EIRP / S \times 4\pi}$

From the above calculations, with:

Downlink Maximum Antenna Gain = 2dBi
Downlink Maximum output power = 27dBm

Uplink Maximum Antenna Gain = 11dBi
Uplink Maximum output power = 18dBm

S = 1.0 mW/cm²
EIRP = 29dBm or 0.794W (worst case)

S = 1.0 mW/cm²
EIRP = 29dBm or 0.794W (worst case)

Therefore,
R = 7.95cm (Downlink)

R = 7.95cm (Uplink)

These are the minimum safe distances for the general population for each antenna.

Maximum Permissible Exposure (MPE) Compliance

BDA-PCS/F-.5/2W-70-A
FCC ID Q8KPCS2W70A

At the maximum operating frequency of 1975MHz (Downlink) and 1895MHz (Uplink) the MPE limit for the General Population/Uncontrolled Exposure is as follows: Downlink = 1.0mW/cm² and Uplink = 1.0mW/cm².

The analysis is provided below.

Power Density (S) = $EIRP / (4\pi R^2)$, Therefore, $R \geq \sqrt{EIRP / S \times 4\pi}$

From the above calculations, with:

Downlink Maximum Antenna Gain = 2dBi
Downlink Maximum output power = 27dBm

Uplink Maximum Antenna Gain = 11dBi
Uplink Maximum output power = 18dBm

S = 1.0 mW/cm²
EIRP = 29dBm or 0.794W (worst case)

S = 1.0 mW/cm²
EIRP = 29dBm or 0.794W (worst case)

Therefore,
R= 7.95cm (Downlink)

R= 7.95cm (Uplink)

These are the minimum safe distances for the general population for each antenna.