

# 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/cm<sup>2</sup> and Uplink = 1.0mW/cm<sup>2</sup>.

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/cm<sup>2</sup>  
EIRP = 29dBm or .794W (worst case)

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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/cm<sup>2</sup> and Uplink = 1.0mW/cm<sup>2</sup>.

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/cm<sup>2</sup>  
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*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/cm<sup>2</sup> and Uplink = 1.0mW/cm<sup>2</sup>.

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/cm<sup>2</sup>  
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S = 1.0 mW/cm<sup>2</sup>  
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/cm<sup>2</sup> and Uplink = 1.0mW/cm<sup>2</sup>.

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/cm<sup>2</sup>  
EIRP = 29dBm or 0.794W (worst case)

S = 1.0 mW/cm<sup>2</sup>  
EIRP = 29dBm or 0.794W (worst case)

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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/cm<sup>2</sup> and Uplink = 1.0mW/cm<sup>2</sup>.

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/cm<sup>2</sup>  
EIRP = 29dBm or 0.794W (worst case)

S = 1.0 mW/cm<sup>2</sup>  
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/cm<sup>2</sup> and Uplink = 1.0mW/cm<sup>2</sup>.

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/cm<sup>2</sup>  
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S = 1.0 mW/cm<sup>2</sup>  
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*Therefore,*  
R= 7.95cm (Downlink)

R= 7.95cm (Uplink)

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