

JRANDALL CO BI DIRECTIONAL AMP BDA800

Section 1.310 Population/Uncontrolled Exposure (300 - 1500 MHz)

OUTDOOR UPLINK

<u>TX frequency (MHz)</u>	<u>mW/cm²</u>	<u>Antenna from dBi to (G) numeric</u>	<u>dBi</u>
815	0.5433333	19.95262315	13

<u>E (V/m)</u>	
P = E ² / 3770	45.258885
<u>Tx Maximum Power Output</u>	<u>Watts</u>
	0.05

<u>D =</u>	<u>sqrt(30 * P * G)</u>	<u>Distance</u>
	E	0.0975694

	<u>(meters)</u>
<u>MPE</u>	0.0975694

INDOOR DOWNLINK

<u>TX frequency (MHz)</u>	<u>mW/cm²</u>	<u>Antenna from dBi to (G) numeric</u>	<u>dBi</u>
860	0.5733333	19.95262315	13

<u>E (V/m)</u>	
P = E ² / 3770	46.491576
<u>Tx Maximum Power Output</u>	<u>Watts</u>
	0.02

<u>D =</u>	<u>sqrt(30 * P * G)</u>	<u>Distance</u>
	E	0.0600721

	<u>(meters)</u>
<u>MPE</u>	0.0600721