

APPLICANT: KELVIN HUGHES LIMITED

FCC ID: CICSXV-A1

RF Exposure Safety Distance Calculation:

RF Exposure Safety Distance calculation		Input Data:		Output Data (m):							
Antenna Azimuth Beamwidth	θ Az	4	°								
Antenna Elevation Beamwidth	θ El	25	°								
Transceiver Nominal Peak Power	Peak P	80	W								
Transceiver maximum duty cycle (X-band = 0.13)	Duty	13%	fraction								
Power Density Limit 1	W/m ²	10	W/m ²	10	W/m ²						
Power Density Limit 2	W/m ²	50	W/m ²	50	W/m ²						
Operation frequency (centre or highest by choice)	Freq	9.30E+09	Hz								
Auto calculated antenna effective width	W _{eff}	0.462063									
Auto calculated antenna effective height	H _{eff}	0.07393									
				<table border="1"><thead><tr><th>Rotation</th><th>No Rotation</th></tr></thead><tbody><tr><td>0.9</td><td>15.1</td></tr><tr><td>0.4</td><td>2.9</td></tr></tbody></table>	Rotation	No Rotation	0.9	15.1	0.4	2.9	m
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