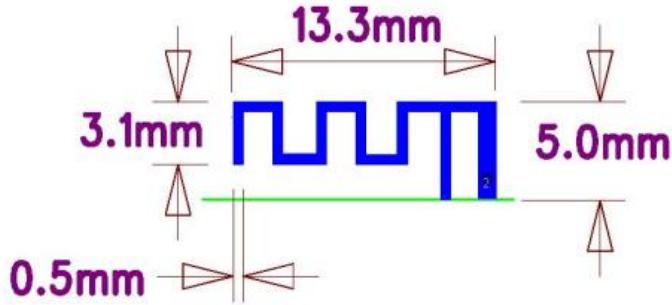


1. Company: Solcharge
2. Product name: Solcharge
3. RF module/chip: TI CC2640
4. Antenna description

Antenna type	PCB antenna
Frequency range	2402MHz~2480MHz
Modulation	IFA
Antenna gain max (peak)	1.5dBm
Cable loss	NA
Connector type	direct

5. Antenna layout

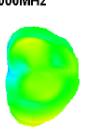
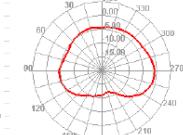
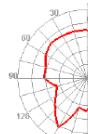
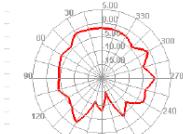
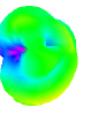
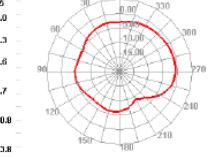
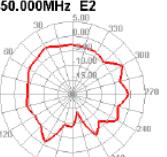
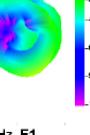
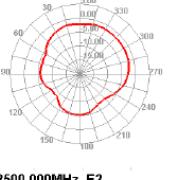
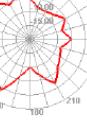
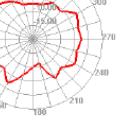
Antenna Layout & module on the system board



6. Antenna radiation pattern

Please refer to [appendix A >>](#)

Appendix A - Radiation Pattern

RP - Low channel	RP - Mid channel	RP - High channel																								
<p>2 Antenna Radiation Pattern</p> <p>Radiation pattern@2.400GHZ</p> <p>Antenna Max. Peak Gain: 0.7dbi</p> <table border="1"> <tr> <td>Freq. [MHz]</td> <td>2400</td> </tr> <tr> <td>Rft. [W]</td> <td>38.46</td> </tr> <tr> <td>Antenna Max. Peak Gain</td> <td>0.7dbi</td> </tr> <tr> <td>Minimum Peak Gain of Antenna</td> <td>-1.46dbi</td> </tr> </table> <p>2400.000MHz</p>  <p>2400.000MHz H</p>  <p>2400.000MHz E1</p>  <p>2400.000MHz E2</p> 	Freq. [MHz]	2400	Rft. [W]	38.46	Antenna Max. Peak Gain	0.7dbi	Minimum Peak Gain of Antenna	-1.46dbi	<p>Radiation pattern@2.450GHZ</p> <p>Antenna Max. Peak Gain: 1.5dbi</p> <table border="1"> <tr> <td>Freq. [MHz]</td> <td>2450</td> </tr> <tr> <td>Rft. [W]</td> <td>43.35</td> </tr> <tr> <td>Antenna Max. Peak Gain</td> <td>1.5dbi</td> </tr> <tr> <td>Minimum Peak Gain of Antenna</td> <td>-0.65dbi</td> </tr> </table> <p>2450.000MHz H</p>  <p>2450.000MHz H</p>  <p>2450.000MHz E1</p>  <p>2450.000MHz E2</p> 	Freq. [MHz]	2450	Rft. [W]	43.35	Antenna Max. Peak Gain	1.5dbi	Minimum Peak Gain of Antenna	-0.65dbi	<p>Radiation pattern@2.500GHZ</p> <p>Antenna Max. Peak Gain: 1.08dbi</p> <table border="1"> <tr> <td>Freq. [MHz]</td> <td>2500</td> </tr> <tr> <td>Rft. [W]</td> <td>38.77</td> </tr> <tr> <td>Antenna Max. Peak Gain</td> <td>1.08dbi</td> </tr> <tr> <td>Minimum Peak Gain of Antenna</td> <td>-1.07dbi</td> </tr> </table> <p>2500.000MHz H</p>  <p>2500.000MHz H</p>  <p>2500.000MHz E1</p>  <p>2500.000MHz E2</p> 	Freq. [MHz]	2500	Rft. [W]	38.77	Antenna Max. Peak Gain	1.08dbi	Minimum Peak Gain of Antenna	-1.07dbi
Freq. [MHz]	2400																									
Rft. [W]	38.46																									
Antenna Max. Peak Gain	0.7dbi																									
Minimum Peak Gain of Antenna	-1.46dbi																									
Freq. [MHz]	2450																									
Rft. [W]	43.35																									
Antenna Max. Peak Gain	1.5dbi																									
Minimum Peak Gain of Antenna	-0.65dbi																									
Freq. [MHz]	2500																									
Rft. [W]	38.77																									
Antenna Max. Peak Gain	1.08dbi																									
Minimum Peak Gain of Antenna	-1.07dbi																									