

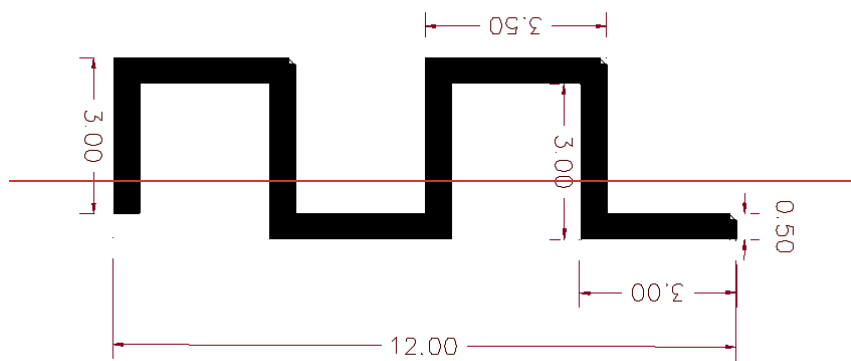
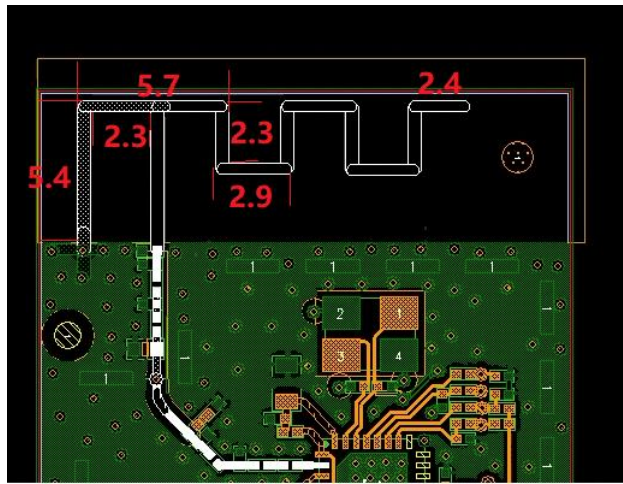
Antenna Specification

1. Antenna introduction

Antenna plate	PCB antenna
Make name/model name	HL<u>3216CE</u>
Manufacturer	Hisense Home Appliances Group Co.,Ltd.Qingdao Branch
Address	Hisense R&D center, #399 Songling Road, Qingdao, Shandong, 266000, China
Antenna gain	<u>1</u> dBi
Frequency range	<u>2.4000~2.4835GHz</u>
Connector type	Direct
Location of measurement (company name)	SHEN ZHEN SHI XINZHONGXIN TECHNOLOG.CO,LTD

2. External view drawing;(UNIT:mm, deviation: $\pm 0.3\text{mm}$)

Picture of antenna



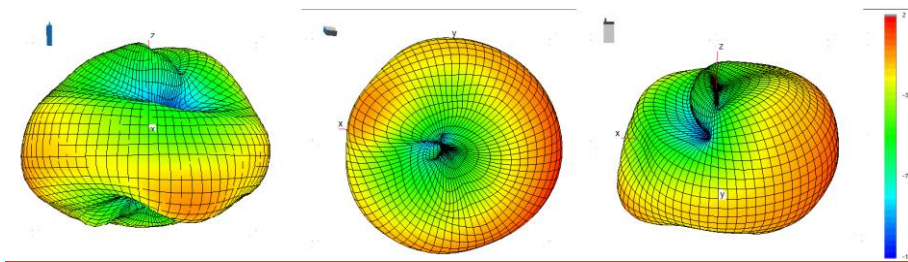
3. Antenna radiation pattern (3D)

3.1Gain and Efficiency

<u>chNo</u>	<u>Freq(MHz)</u>	<u>Gain_dBi</u>	<u>Efficiency_dB</u>
<u>1</u>	<u>2400</u>	<u>0.40</u>	<u>-2.50</u>
<u>2</u>	<u>2410</u>	<u>0.72</u>	<u>-2.91</u>
<u>3</u>	<u>2420</u>	<u>0.62</u>	<u>-3.04</u>
<u>4</u>	<u>2430</u>	<u>0.52</u>	<u>-3.10</u>
<u>5</u>	<u>2440</u>	<u>0.50</u>	<u>-3.20</u>
<u>6</u>	<u>2450</u>	<u>0.63</u>	<u>-2.96</u>
<u>7</u>	<u>2460</u>	<u>1.00</u>	<u>-2.96</u>

<u>8</u>	<u>2470</u>	<u>0.82</u>	<u>-3.15</u>
<u>9</u>	<u>2480</u>	<u>0.54</u>	<u>-3.31</u>
<u>10</u>	<u>2490</u>	<u>0.60</u>	<u>-3.49</u>

3.2Ratiation Pattern@2.45GHz

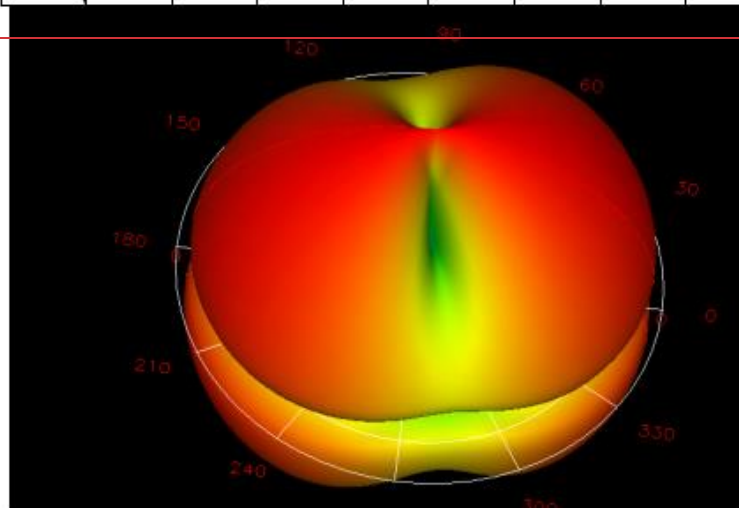


3. Antenna Radiation Pattern

Radiation pattern@2.402GHZ

Total Average Gain:-0.475dbi

Phi	0	45	90	135	180	235	270	315
Gain	-0.1	-0.3	-0.8	-0.5	-0.2	-0.6	-0.8	-0.5



Radiation pattern@2.480GHZ

Total Average Gain:-0.237dbi

Phi	0	45	90	135	180	235	270	315
Gain	0	-0.1	-0.2	-0.5	0	-0.3	-0.6	-0.2

