

# Antenna specifications

版本：A1

DESCRIPTION: SMA-2.4G2DB Black antenna

D A T E: 2018-3-30

|                        |                |                  |
|------------------------|----------------|------------------|
| ENGINEERING DEPARTMENT | Q C DEPARTMENT | SALES DEPARTMENT |
| David chen             | Merry liu      | Tony Dai         |
|                        |                |                  |

|                    |              | Electrical Specifications |              |
|--------------------|--------------|---------------------------|--------------|
| frequency range    | 2400-2500MHZ | Frequency Range           | 2400-2500MHZ |
| VSWR               | ≤2.0         | VSWR                      | ≤2.0         |
| Gain               | 2DBI         | GAIN                      | 2DBI         |
| Input impedance    | 50 Ω         | Input Impedance           | 50 Ω         |
|                    |              | Mechanical Specifications |              |
| Antenna color      | Black        | Antenna Color             | BLACK        |
| Interface form     | SMA+孔        | Input connector           | SMA          |
| length             | 108mm        | Cable length              | 108mm        |
| temperature        | -40℃~+85℃    | Working Temperature       | -40℃~+85℃    |
| Operating humidity | 20~80%       | Working Humidity          | 20~80%       |

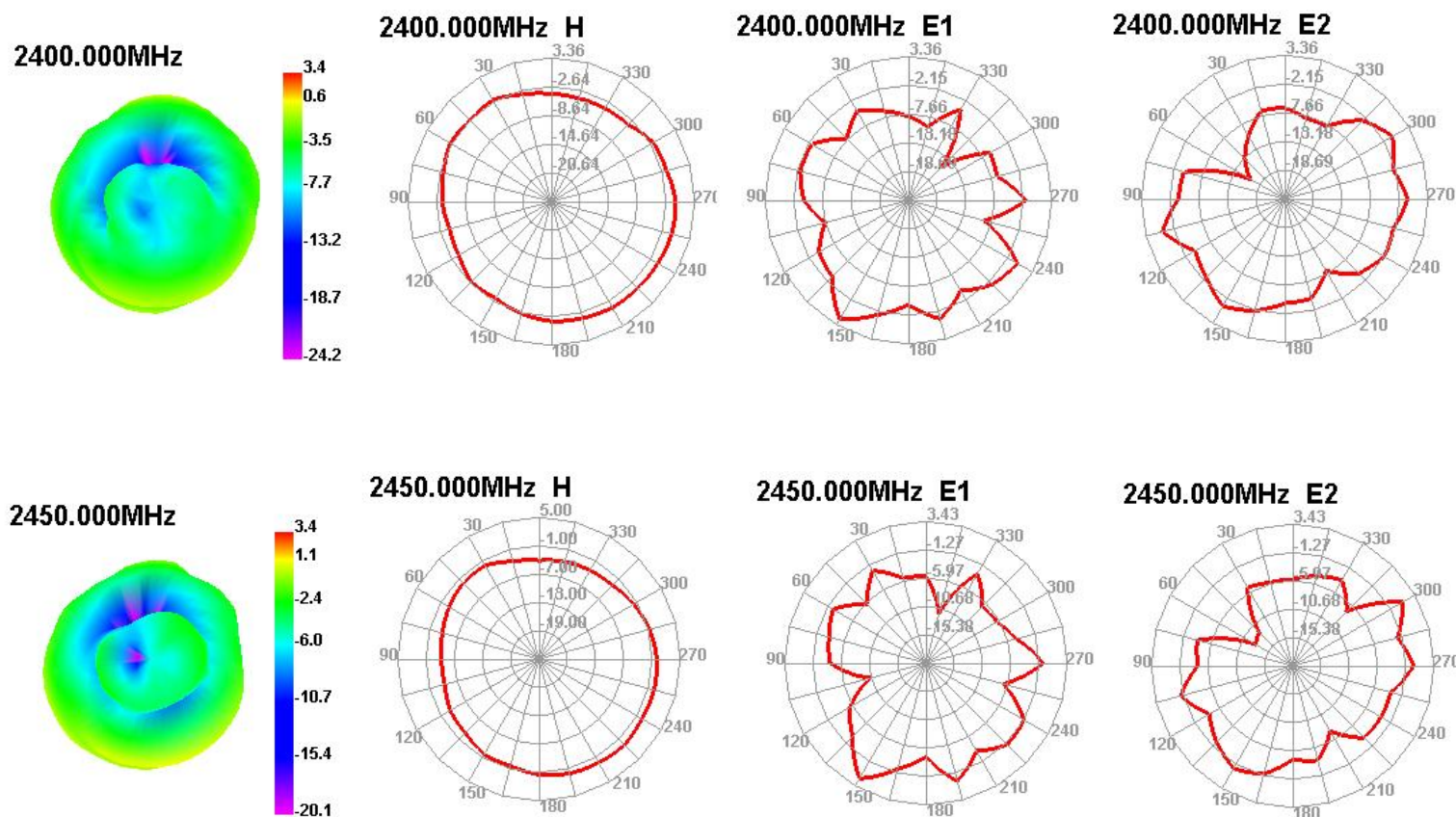


四、Gain efficiency test data

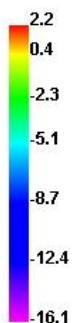
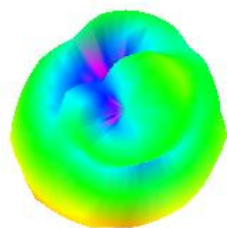
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
|------------|----------|-----------|------------|
| 2400       | 47.06    | -3.27     | 0.57       |
| 2405       | 45.6     | -3.41     | 0.36       |
| 2410       | 49.46    | -3.06     | 0.81       |
| 2415       | 45.94    | -3.38     | 0.44       |
| 2420       | 48.96    | -3.1      | 0.76       |
| 2425       | 52.72    | -2.78     | 1.07       |
| 2430       | 52.54    | -2.79     | 1.05       |
| 2435       | 52.67    | -2.78     | 1.01       |
| 2440       | 54.42    | -2.64     | 1.09       |
| 2445       | 55.15    | -2.58     | 1.09       |
| 2450       | 51.83    | -2.85     | 0.68       |
| 2455       | 55.4     | -2.56     | 0.98       |
| 2460       | 52.21    | -2.82     | 0.72       |
| 2465       | 51.49    | -2.88     | 0.76       |
| 2470       | 49.3     | -3.07     | 0.55       |
| 2475       | 53.32    | -2.73     | 0.92       |
| 2480       | 54.14    | -2.66     | 0.98       |
| 2485       | 53.75    | -2.7      | 0.92       |
| 2490       | 59.49    | -2.26     | 2.0        |
| 2495       | 56.31    | -2.49     | 1.23       |
| 2500       | 55.03    | -2.59     | 1.15       |

| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
|------------|----------|-----------|------------|
| 5000       | 23.32    | -6.32     | -0.82      |
| 5050       | 26.74    | -5.73     | -0.56      |
| 5100       | 28.01    | -5.53     | -0.24      |
| 5150       | 31.95    | -4.95     | 0.34       |
| 5200       | 34.45    | -4.63     | 1.06       |
| 5250       | 43.87    | -3.58     | 1.45       |
| 5300       | 46.46    | -3.33     | 1.73       |
| 5350       | 48.73    | -3.12     | 1.95       |
| 5400       | 48.1     | -3.18     | 2.00       |
| 5450       | 43.31    | -3.63     | 1.8        |
| 5500       | 43.9     | -3.58     | 1.88       |
| 5550       | 35.27    | -4.53     | 1.07       |
| 5600       | 24.47    | -6.11     | 0.48       |
| 5650       | 23.92    | -6.21     | 0.22       |
| 5700       | 22.03    | -6.57     | -0.16      |
| 5750       | 20.32    | -6.92     | -0.92      |
| 5800       | 19.69    | -7.06     | -0.97      |
| 5850       | 22.56    | -6.47     | -0.57      |
| 5900       | 19.45    | -7.11     | -0.47      |

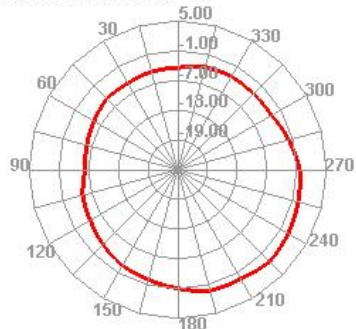
五、Field strength diagram test data



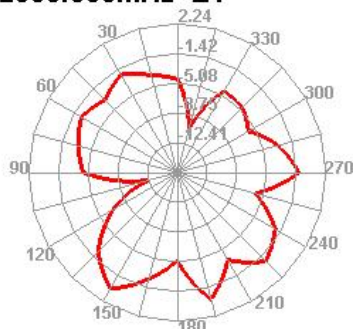
2500.000MHz



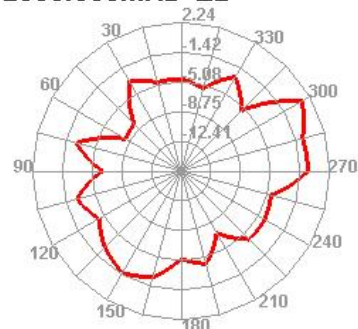
2500.000MHz H



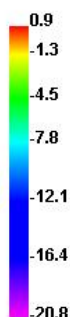
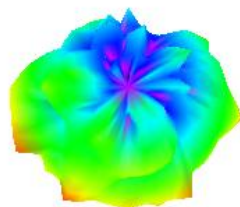
2500.000MHz E1



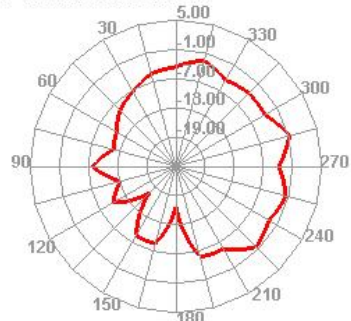
2500.000MHz E2



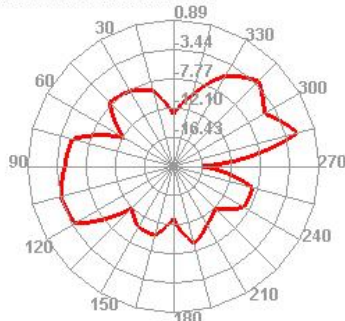
5150.000MHz



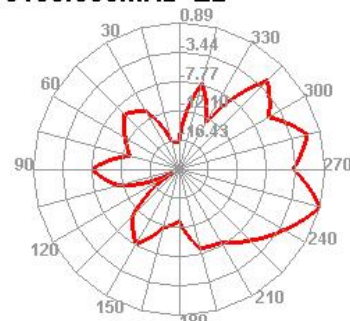
5150.000MHz H



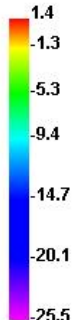
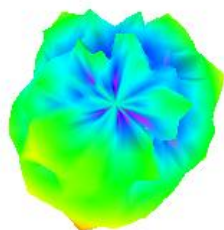
5150.000MHz E1



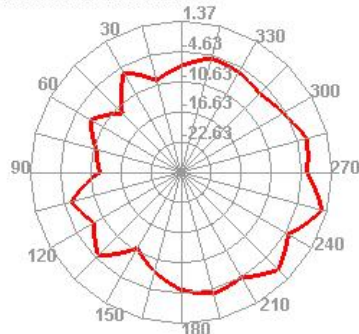
5150.000MHz E2



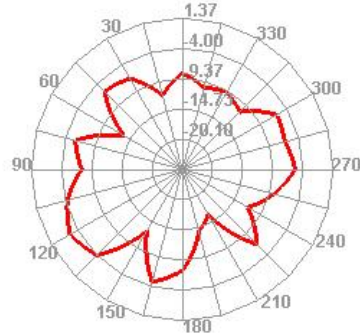
5450.000MHz



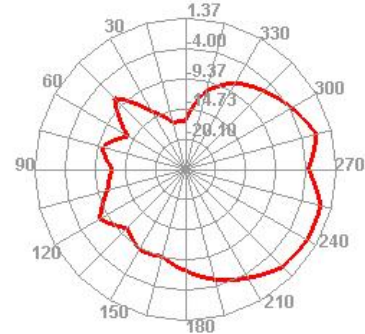
5450.000MHz H



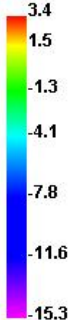
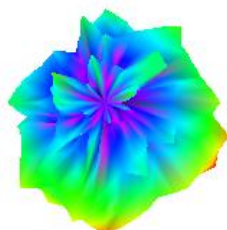
5450.000MHz E1



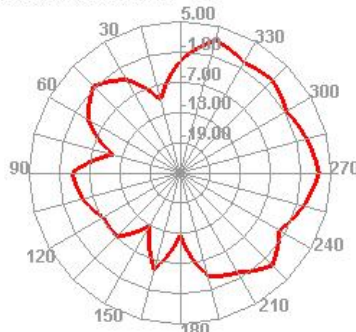
5450.000MHz E2



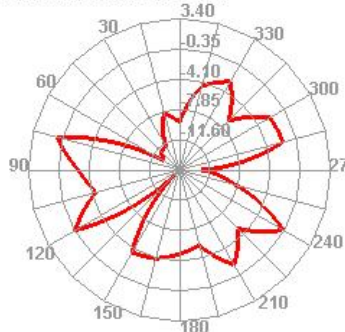
5850.000MHz



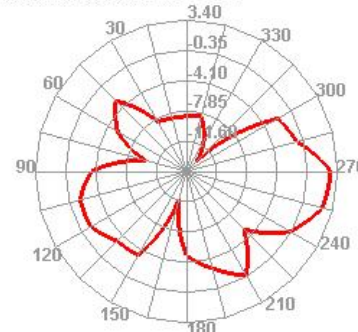
5850.000MHz H



5850.000MHz E1

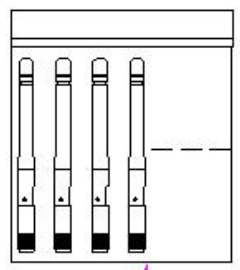
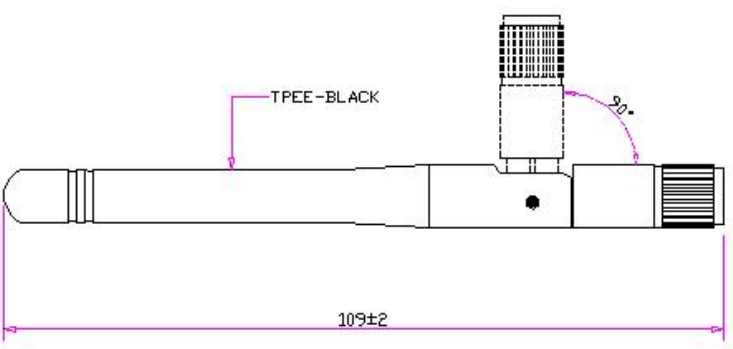


5850.000MHz E2





| REV | DATE | DESCRIPTION | NAME |
|-----|------|-------------|------|
| A1  |      |             |      |
| A2  |      |             |      |



50PCS/bag

- 要求1: 成品须100%测试导通OK  
2. 成品须100%全检OK.  
3. 采用环保制程,成品  
4. 符合ROHS要求.  
接头拉力: 5KG~  
5. 未注公差请以一般公差为准.

|                      |        |
|----------------------|--------|
| 频率范围 Frequency Range | 470MHZ |
| 输入阻抗 Impedance       | 50 OHM |
| 驻波比 VSWR             | < 2.0  |
| 增益 Gain              | 2.0DBI |
| 极化 Polarization      | 垂直     |
| 方向性 Radiation        | 全向     |

截图(Alt + A)

|     |       |                 |     |           |
|-----|-------|-----------------|-----|-----------|
| 7   |       |                 |     |           |
| 6   | 线材    | 1.78插-48插L=97mm | 1   | 1301-0054 |
| 5   | 橡胶外套  | 6.5黑色橡胶-不出线     | 1   | 1203-0017 |
| 4   | 橡胶上座  | 6.5黑色橡胶-不出线     | 1   | 1201-0016 |
| 3   | 橡胶下座  | 6.5黑色橡胶-不出线     | 1   | 1201-0015 |
| 2   | 五金件   | 1.6*5.0*L24     | 1   | 1701-0065 |
| 1   | S M A | 6.5插胶-针         | 1   | 1101-0111 |
| NO. | NAME  | Description     | QTY | Part No.  |

|         |      |
|---------|------|
| 0~1     | ±0.1 |
| 1~10    | ±0.3 |
| 11~30   | ±0.5 |
| 31~100  | ±0.8 |
| 101~300 | ±1.0 |
| 301~    | ±2.0 |
| ANGULAR | ±1°  |

|                      |       |                     |          |
|----------------------|-------|---------------------|----------|
| 品名规格 (PRODUCT NAME)  |       | 2.4G 2DBI橡胶天线-L1.05 |          |
| 料号 (PART NAME)       |       |                     |          |
| 客户料号 (CIS PART NAME) |       |                     |          |
| 绘图 (DRAW)            | NELR  | 版本 (REV)            | A1       |
| 审核 (CHECK)           | CHEM  | 日期 (DATE)           | 2017-8-3 |
| 核准 (APP.)            | NERLR | 页码 (PAGE)           | 1/1      |