

Feitian Technologies Co., Ltd.



|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Project name:         | M60                                                       |
| MATERIAL CODE:        | 01.02.021.000173                                          |
| Nameof Material:      | MAIN                                                      |
| Suppliers:            | Fuzhou ZHONGTIANXUN<br>CommunicationTechnology<br>Co.,Ltd |
| Sample delivery time: | 2025.2.20                                                 |
| Version:              | V1.0                                                      |

## SPECIFICATION APPROVAL SHEET

## 样品承认书

|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |         |                      |    |                                                                                          |                               |        |    |         |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------|----------------------|----|------------------------------------------------------------------------------------------|-------------------------------|--------|----|---------|
| material                                                                                          | Material name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MAIN                                                                                     |         | Description          |    | M60-MAIN                                                                                 |                               |        |    |         |
|                                                                                                   | P\N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 01. 02. 021. 000173                                                                      |         | MPN                  |    | 1. 03. 03388                                                                             |                               |        |    |         |
|                                                                                                   | Vendor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Fuzhou Zhongtianxun                                                                      |         | Manufacturer         |    | Fuzhou Zhongtianxun                                                                      |                               |        |    |         |
|                                                                                                   | Sample QTY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6PCS                                                                                     |         | Model                |    | M60                                                                                      |                               |        |    |         |
|                                                                                                   | Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 34 Shilong Avenue, Shiyan Street, Baoan District, Shenzhen City, Guangdong Province      |         |                      |    |                                                                                          |                               |        |    |         |
| quality                                                                                           | RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |         | Information complete |    | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |                               |        |    |         |
|                                                                                                   | Consistency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |         |                      |    |                                                                                          |                               |        |    |         |
|                                                                                                   | Result: <input type="checkbox"/> FA, <input type="checkbox"/> Risk Go QTY _____, <input type="checkbox"/> REJ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                          |         |                      |    |                                                                                          |                               |        |    |         |
|                                                                                                   | Risk go or reject comment:<br>SQE:<br>Remark: Appearance limit sample is confirmed by SQE and PQE together.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                          |         |                      |    |                                                                                          |                               |        |    |         |
| DQA                                                                                               | Test report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |         | OTR confirm          |    | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |                               |        |    |         |
|                                                                                                   | Test report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |         | Design Fix           |    | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |                               |        |    |         |
|                                                                                                   | Result: <input type="checkbox"/> FA, <input type="checkbox"/> Risk Go QTY _____, <input type="checkbox"/> REJ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                          |         |                      |    |                                                                                          |                               |        |    |         |
|                                                                                                   | Risk go or reject comment:<br>DQA:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                          |         |                      |    |                                                                                          |                               |        |    |         |
| R&D                                                                                               | Dimension                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |         | Specification        |    | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |                               |        |    |         |
|                                                                                                   | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |         | Color                |    | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |                               |        |    |         |
|                                                                                                   | Manual content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |         | Appearance           |    | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |                               |        |    |         |
|                                                                                                   | Packing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |         | Safety certificate   |    | <input type="checkbox"/> FA, <input type="checkbox"/> REJ, <input type="checkbox"/> N/A, |                               |        |    |         |
|                                                                                                   | Result: <input type="checkbox"/> FA, <input type="checkbox"/> Risk Go QTY _____, <input type="checkbox"/> REJ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                          |         |                      |    |                                                                                          |                               |        |    |         |
|                                                                                                   | Risk go or reject comment:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                          |         |                      |    |                                                                                          |                               |        |    |         |
|                                                                                                   | Confirmer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ID                                                                                       | Packing | ME                   | HW | SW                                                                                       | SW TEST                       | Market | PM | Manager |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |         |                      |    |                                                                                          |                               |        |    |         |
|                                                                                                   | Note: the color, appearance and color limit samples of the structural parts shall be confirmed by ID representative. The contents of the specification shall be confirmed by software and packaging material representative together, and the packaging material representative shall confirm the packaging material. The structure material is confirmed by structure representative, the structure electronic material is confirmed by structure and hardware representative. The electronic material is confirmed by hardware representative. Device expert and software is responsible for the confirmation of corresponding devices, such as battery, camera, screen etc. |                                                                                          |         |                      |    |                                                                                          |                               |        |    |         |
|                                                                                                   | Important inspection items (R&D comment)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                          |         |                      |    |                                                                                          | <input type="checkbox"/> N/A, |        |    |         |
| NO.                                                                                               | Key inspection item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                          |         | Standard request     |    | Confirmer                                                                                |                               | Remark |    |         |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |         |                      |    |                                                                                          |                               |        |    |         |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |         |                      |    |                                                                                          |                               |        |    |         |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |         |                      |    |                                                                                          |                               |        |    |         |
| vendor                                                                                            | Stamp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |         | Quality confirm      |    | RD redact                                                                                |                               |        |    |         |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |         | DengShan. Deng       |    | Zhengwei. Chen                                                                           |                               |        |    |         |
| Note: FA means accept, REJ means reject, N/A means not applicable; A cross-page seal is required. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |         |                      |    |                                                                                          |                               |        |    |         |
| Doc. No:                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |         |                      |    |                                                                                          |                               |        |    |         |
| Note: FA means receiving. REJ means rejecting. N/A means not applicable.                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |         |                      |    |                                                                                          |                               |        |    |         |

Catalogue

A) Product Specification \2D ..... 5~12

SPECIFICATION APPROVAL SHEET

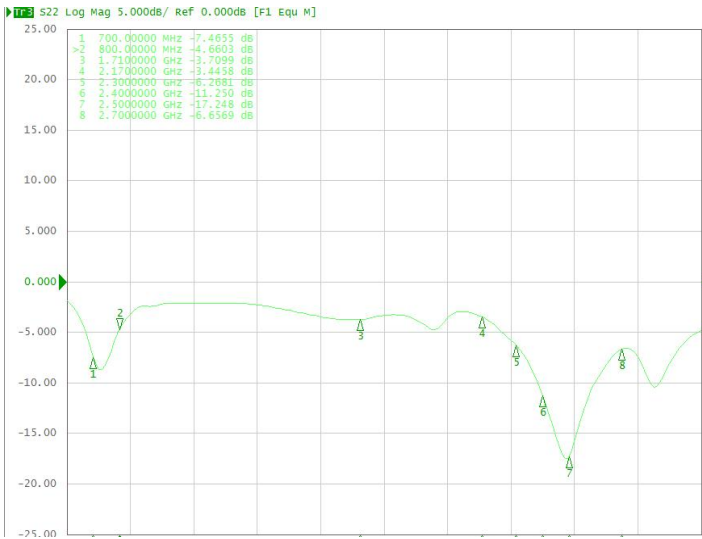
Change resume

| Rev | Acknowledge the change | Alteration party | auditor | approver | date        |
|-----|------------------------|------------------|---------|----------|-------------|
| V1  | First edition.         |                  |         |          | 2025. 2. 20 |
|     |                        |                  |         |          |             |
|     |                        |                  |         |          |             |

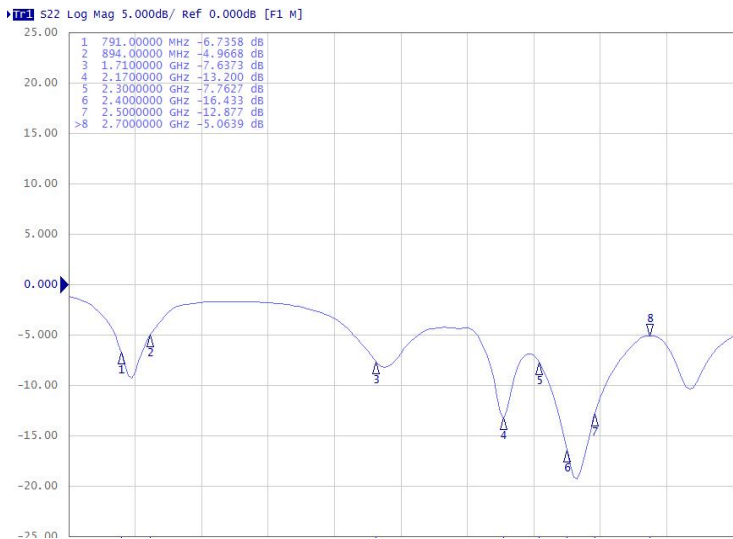
SPECIFICATION APPROVAL SHEET

A. Product specifications \2D drawings

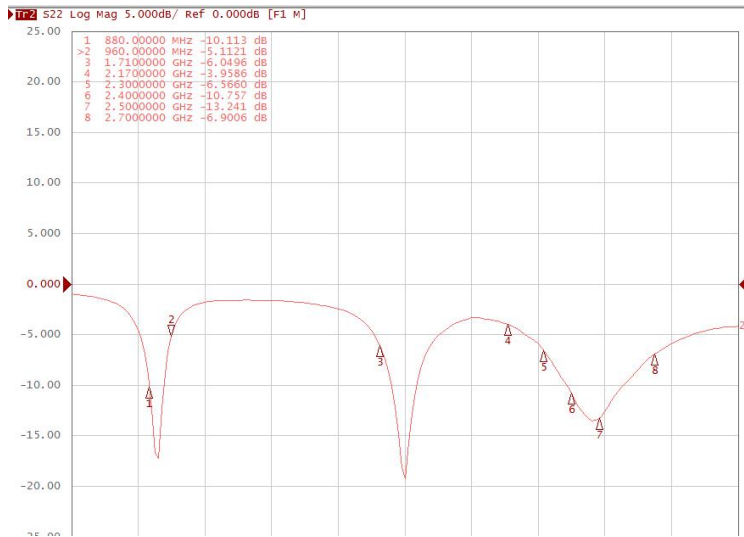
A-1 VSWR  
700-800MHz



790-900MHz



880-2960MHz



# SPECIFICATION APPROVAL SHEET

---

## A-2 Passive efficiency

700-800MHz

| Frequency (MHz) | Gain (dBi) | Efficiency (dB) | Efficiency (%) |
|-----------------|------------|-----------------|----------------|
| 700             | -2.44      | -7.42           | 18.11          |
| 710             | -1.93      | -6.96           | 20.15          |
| 720             | -1.67      | -6.51           | 22.34          |
| 730             | -1.29      | -6.09           | 24.63          |
| 740             | -0.96      | -5.68           | 27.06          |
| 750             | -0.84      | -5.44           | 28.59          |
| 760             | -1.09      | -5.32           | 29.39          |
| 770             | -1.58      | -5.41           | 28.77          |
| 780             | -2.01      | -5.76           | 26.57          |
| 790             | -2.14      | -6.11           | 24.46          |
| 800             | -2.31      | -6.45           | 22.65          |

790-900MHz

| Frequency (MHz) | Gain (dBi) | Efficiency (dB) | Efficiency (%) |
|-----------------|------------|-----------------|----------------|
| 790             | -2.32      | -6.14           | 24.35          |
| 800             | -1.97      | -5.84           | 26.09          |
| 810             | -1.58      | -5.25           | 29.85          |
| 820             | -0.9       | -4.85           | 32.77          |
| 830             | -0.33      | -4.47           | 35.71          |
| 840             | 0.05       | -4.2            | 37.98          |
| 850             | 0.2        | -3.92           | 40.53          |
| 860             | 0.13       | -3.86           | 41.1           |
| 870             | -0.01      | -3.98           | 39.97          |
| 880             | -0.09      | -4.25           | 37.55          |
| 890             | -0.31      | -4.53           | 35.22          |
| 900             | -0.67      | -4.89           | 32.41          |

# SPECIFICATION APPROVAL SHEET

880-2960MHz

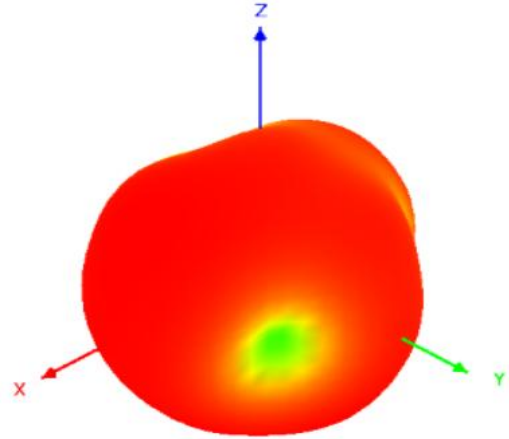
| Frequency(MHz) | Gain(dBi) | Efficiency(dB) | Efficiency(%) | Frequency(MHz) | Gain(dBi) | Efficiency(dB) | Efficiency(%) |
|----------------|-----------|----------------|---------------|----------------|-----------|----------------|---------------|
| 880            | -0.25     | -4.45          | 35.89         | 2010           | 0.02      | -5.57          | 27.75         |
| 890            | 0.11      | -4.19          | 38.13         | 2030           | 0.23      | -5.47          | 28.35         |
| 900            | 0.29      | -4.03          | 39.52         | 2050           | 0.45      | -5.44          | 28.58         |
| 910            | 0.57      | -3.97          | 40.07         | 2070           | 0.4       | -5.42          | 28.73         |
| 920            | 0.73      | -3.97          | 40.05         | 2090           | 0.67      | -5.1           | 30.92         |
| 930            | 0.62      | -4.07          | 39.15         | 2110           | 0.68      | -4.91          | 32.32         |
| 940            | 0.37      | -4.23          | 37.72         | 2130           | 0.99      | -4.61          | 34.62         |
| 950            | -0.06     | -4.59          | 34.75         | 2150           | 1.21      | -4.55          | 35.1          |
| 960            | -0.33     | -5.07          | 31.13         | 2170           | 1.7       | -4.15          | 38.45         |
| 1710           | 1.93      | -4.11          | 38.84         | 2190           | 1.77      | -3.85          | 41.16         |
| 1730           | 2.39      | -3.45          | 45.23         | 2210           | 1.46      | -3.9           | 40.69         |
| 1750           | 2.68      | -2.73          | 53.29         | 2230           | 1.73      | -3.63          | 43.38         |
| 1770           | 2.64      | -2.35          | 58.23         | 2250           | 2.18      | -3.28          | 46.98         |
| 1790           | 2.72      | -2.15          | 60.91         | 2270           | 2.45      | -2.9           | 51.26         |
| 1810           | 2.59      | -2.16          | 60.85         | 2290           | 2.04      | -2.8           | 52.52         |
| 1830           | 1.95      | -2.44          | 57.06         | 2310           | 1.66      | -2.67          | 54.14         |
| 1850           | 1.74      | -2.88          | 51.54         | 2330           | 1.67      | -2.46          | 56.77         |
| 1870           | 1.52      | -3.33          | 46.46         | 2350           | 1.92      | -2.59          | 55.06         |
| 1890           | 1.18      | -3.73          | 42.36         | 2370           | 2.4       | -2.21          | 60.07         |
| 1910           | 1.01      | -4.2           | 38.06         | 2390           | 2.78      | -1.97          | 63.6          |
| 1930           | 0.54      | -4.95          | 32            | 2410           | 2.91      | -1.79          | 66.22         |
| 1950           | 0.76      | -4.94          | 32.07         | 2430           | 3.13      | -1.6           | 69.24         |
| 1970           | 0.45      | -5.15          | 30.56         | 2450           | 2.98      | -1.63          | 68.77         |
| 1990           | 0.01      | -5.52          | 28.04         | 2470           | 3.25      | -1.64          | 68.61         |

| Frequency(MHz) | Gain(dBi) | Efficiency(dB) | Efficiency(%) |
|----------------|-----------|----------------|---------------|
| 2490           | 3.18      | -1.5           | 70.76         |
| 2510           | 2.06      | -1.93          | 64.17         |
| 2530           | 1.91      | -2.13          | 61.3          |
| 2550           | 1.61      | -2.33          | 58.53         |
| 2570           | 1.35      | -2.45          | 56.82         |
| 2590           | 1.34      | -2.58          | 55.2          |
| 2610           | 1.21      | -2.38          | 57.77         |
| 2630           | 1.14      | -2.62          | 54.65         |
| 2650           | 0.96      | -3.11          | 48.87         |
| 2670           | 1.03      | -3.14          | 48.56         |
| 2690           | 1.46      | -2.97          | 50.52         |

A-3 3D radiation map

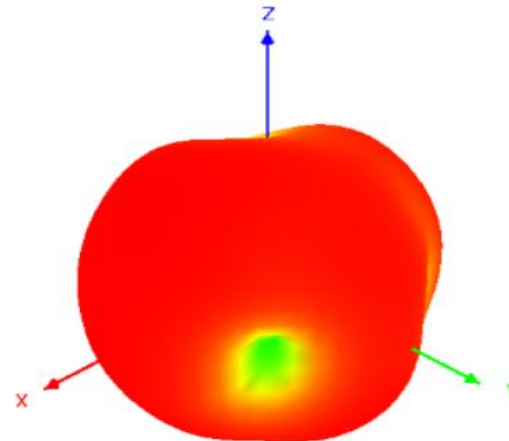
760MHZ

Freq: 760MHz (AxisZ)

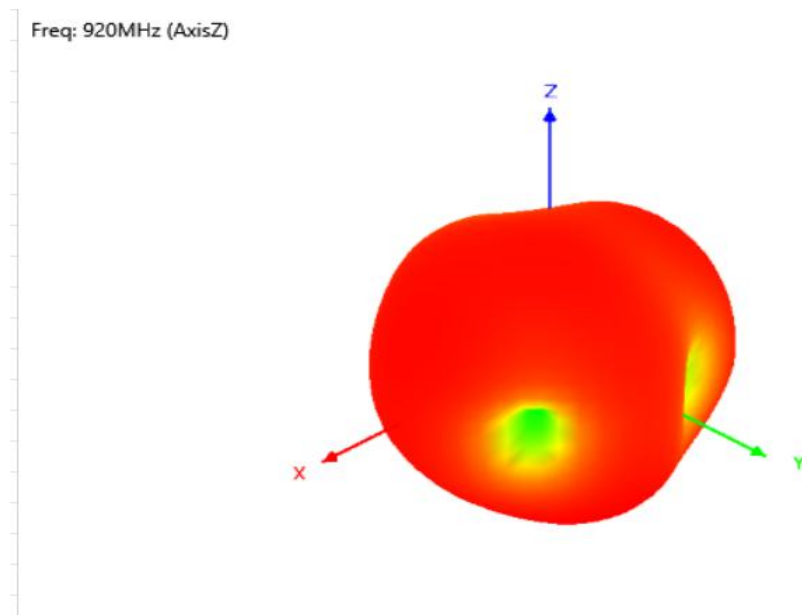


830MHZ

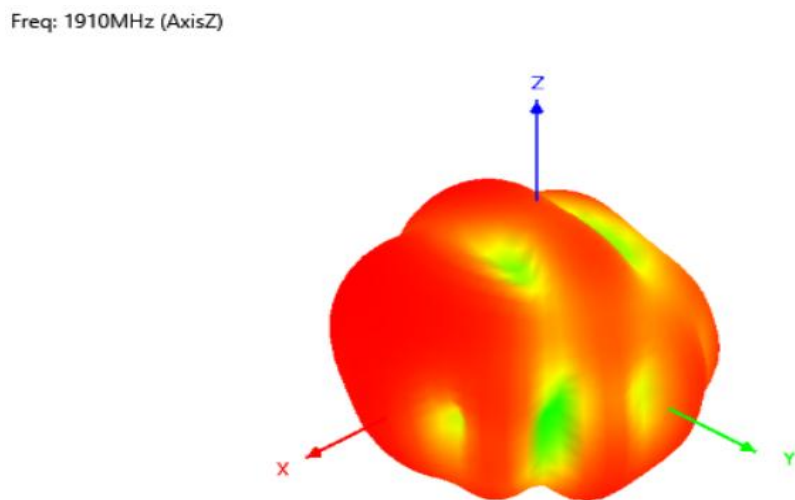
Freq: 830MHz (AxisZ)



920MHZ



1910MHZ



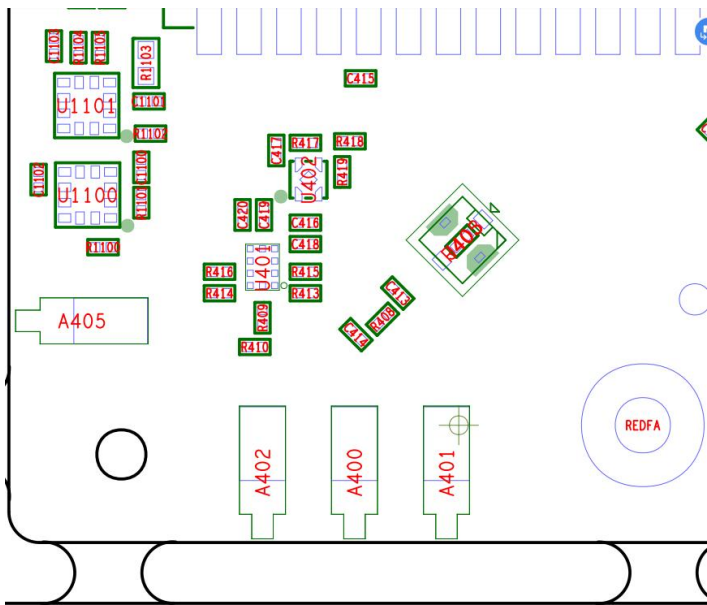
# SPECIFICATION APPROVAL SHEET

---

A-4 Active data

| Band    | TRP ( dBm ) | TIS ( dBm ) |
|---------|-------------|-------------|
| FDD_B1  | 18.27       |             |
|         | 18.31       |             |
|         | 18.29       | -94.87      |
| FDD_B3  | 19.48       |             |
|         | 20.07       |             |
|         | 19.88       | -94.49      |
| FDD_B5  | 18.14       |             |
|         | 19.09       |             |
|         | 19.57       | -91.16      |
| FDD_B7  | 20.05       |             |
|         | 19.3        |             |
|         | 19.94       | -92.32      |
| FDD_B8  | 17.15       |             |
|         | 18.42       |             |
|         | 17.77       | -91.36      |
| FDD_B20 | 18.78       |             |
|         | 19.13       |             |
|         | 19.29       | -90.48      |
| FDD_B28 | 15.38       |             |
|         | 15.76       |             |
|         | 16.89       | -91.57      |
| TDD_B38 | 19.7        |             |
|         | 19.96       |             |
|         | 19.37       | -95.25      |
| TDD_B40 | 19.82       |             |
|         | 19.92       |             |
|         | 19.92       | -94.41      |
| TDD_B41 | 20.3        |             |
|         | 20.63       |             |
|         | 20.59       | -91.1       |

A-5 Matching specification



Note: Removed A405/A401

|                                        |
|----------------------------------------|
| EC200A-AU:                             |
| LTE: B1/B2/B3/B4/B5/B7/B8/B28/B40/ B66 |
| WCDMA: B1/B2/B4/B5/B8                  |
| GSM: 1900/1800/850/900                 |

| AUHA   | PIN144 | PIN143 | RF  | Band Requirements                                           |
|--------|--------|--------|-----|-------------------------------------------------------------|
| Switch | GRFC1  | GRFC2  |     |                                                             |
| Status | 0      | 0      | RF1 | LTE B28                                                     |
|        | 0      | 1      | RF2 | LTE B5; WCDMA B5; GSM850                                    |
|        | 1      | 0      | RF3 | LTE B8; WCDMA B8; GSM900                                    |
|        | 1      | 1      | RF4 | LTE B1/B2/B3/B4/B7/B40/B66; WCDMA B1/B2/B4; DCS1800/PCS1900 |

| Antenna Switch | Matching Parameter |
|----------------|--------------------|
| RF1            | NC                 |
| RF2            | 7.5nH              |
| RF3            | 0 Ω                |
| RF4            | 0 Ω                |
| R410           | 10nH               |

| Ref Des | Main Path Matching |
|---------|--------------------|
| C414    | 15nH               |
| R408    | 3.3pF              |
| C413    | NC                 |

A-6 Engineering drawin

