



# CHINMORE INDUSTRY CO., LTD

## Specification

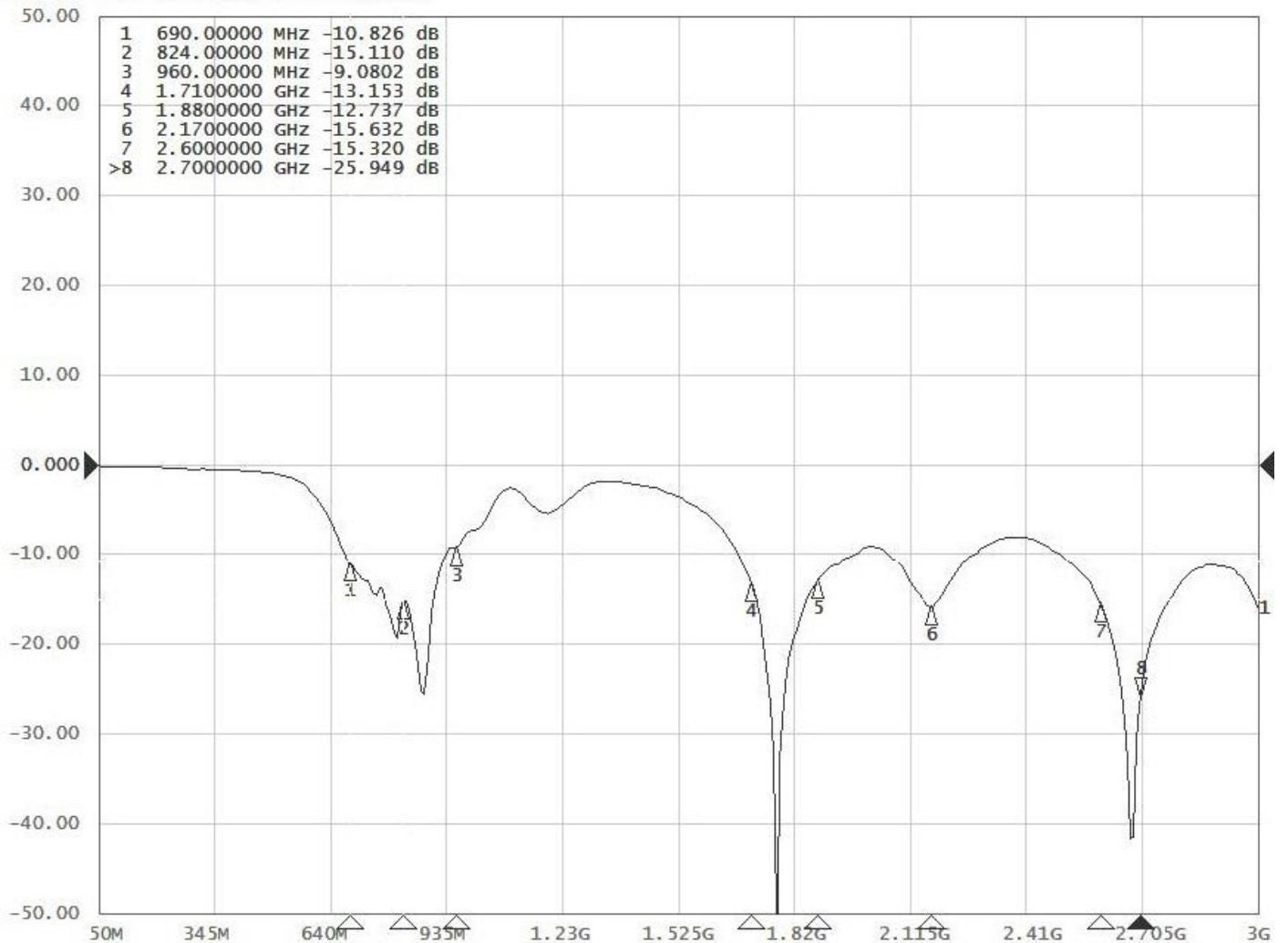
1. Product Type: 4G/LTE Dipole Terminal Antenna
  2. Chinmore No: MT51
  3. Frequency: 690~960 / 1710~2170~2700 MHz  
(690/824/960/1710/1880/2170/2600/2700)
  4. VSWR: 2.0:1
  5. Hinged 90° termination with SMA(M) Connector
  6. Storage temperature: -20°C~+70°C
  7. Operating temperature: -20°C~+70°C
- ※RoHS Compliant

|   |                                 |                                    |                                      |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |
|---|---------------------------------|------------------------------------|--------------------------------------|------------------------------------|--|---------------|-------|-----------|----------|--|--|--------|-------|--------|------------------|---------|--------|-----------|-----------|----------|-----------------|-------------------|--|-----------------|------------|---------|------------------|-------------|--|
| Frequency   | 690~960MHz<br>1710~2170~2700MHz | 包裝方式 : 單包夾鏈袋,需貼 EM-500 LTE 品貼<br>△ | <b>ROHS</b><br>150 9001<br>150 14001 |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |
| V.S.W.R   | 2.0:1                           |                                    |                                      |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |
| Impedence   | 50Ω                             |                                    |                                      |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |
| Gain  | 3 dB                            |                                    |                                      |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |
| SMA M   | Black (■)                       |                                    |                                      |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |
| PC板   | CH-160E(PB-155)                 |                                    |                                      |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |
|   |                                 |                                    |                                      |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |
| <table border="1"> <tr> <td>Material:</td> <td>Treatment:</td> <td colspan="2">竣茂工業有限公司 Chinmore Industry CO .LTD</td> </tr> <tr> <td>Drawer Design</td> <td>Apprv</td> <td>Tolerance</td> <td>Unit: mm</td> </tr> <tr> <td colspan="2" rowspan="3"> </td> <td>Y=±0.5</td> <td>TITLE</td> </tr> <tr> <td>Z=±0.2</td> <td>MT51 (SMA M) 天線轉</td> </tr> <tr> <td>XX=±0.1</td> <td>Ver: A</td> </tr> <tr> <td>XXX=±0.05</td> <td>Scale 1:1</td> <td>Model NO</td> <td>File NO: QR0402</td> </tr> <tr> <td colspan="2">2016/10/7 新增 包裝方式</td> <td>File NO: QR0402</td> <td>Drawing NO</td> </tr> <tr> <td>Part NO</td> <td>EM-B18.0X173-500</td> <td colspan="2">505-058-101</td> </tr> </table> |                                 | Material:                          | Treatment:                           | 竣茂工業有限公司 Chinmore Industry CO .LTD |  | Drawer Design | Apprv | Tolerance | Unit: mm |  |  | Y=±0.5 | TITLE | Z=±0.2 | MT51 (SMA M) 天線轉 | XX=±0.1 | Ver: A | XXX=±0.05 | Scale 1:1 | Model NO | File NO: QR0402 | 2016/10/7 新增 包裝方式 |  | File NO: QR0402 | Drawing NO | Part NO | EM-B18.0X173-500 | 505-058-101 |  |
| Material:   | Treatment:                      | 竣茂工業有限公司 Chinmore Industry CO .LTD |                                      |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |
| Drawer Design   | Apprv                           | Tolerance                          | Unit: mm                             |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |
|   |                                 | Y=±0.5                             | TITLE                                |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |
|   |                                 | Z=±0.2                             | MT51 (SMA M) 天線轉                     |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |
|   |                                 | XX=±0.1                            | Ver: A                               |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |
| XXX=±0.05   | Scale 1:1                       | Model NO                           | File NO: QR0402                      |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |
| 2016/10/7 新增 包裝方式   |                                 | File NO: QR0402                    | Drawing NO                           |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |
| Part NO   | EM-B18.0X173-500                | 505-058-101                        |                                      |                                    |  |               |       |           |          |  |  |        |       |        |                  |         |        |           |           |          |                 |                   |  |                 |            |         |                  |             |  |

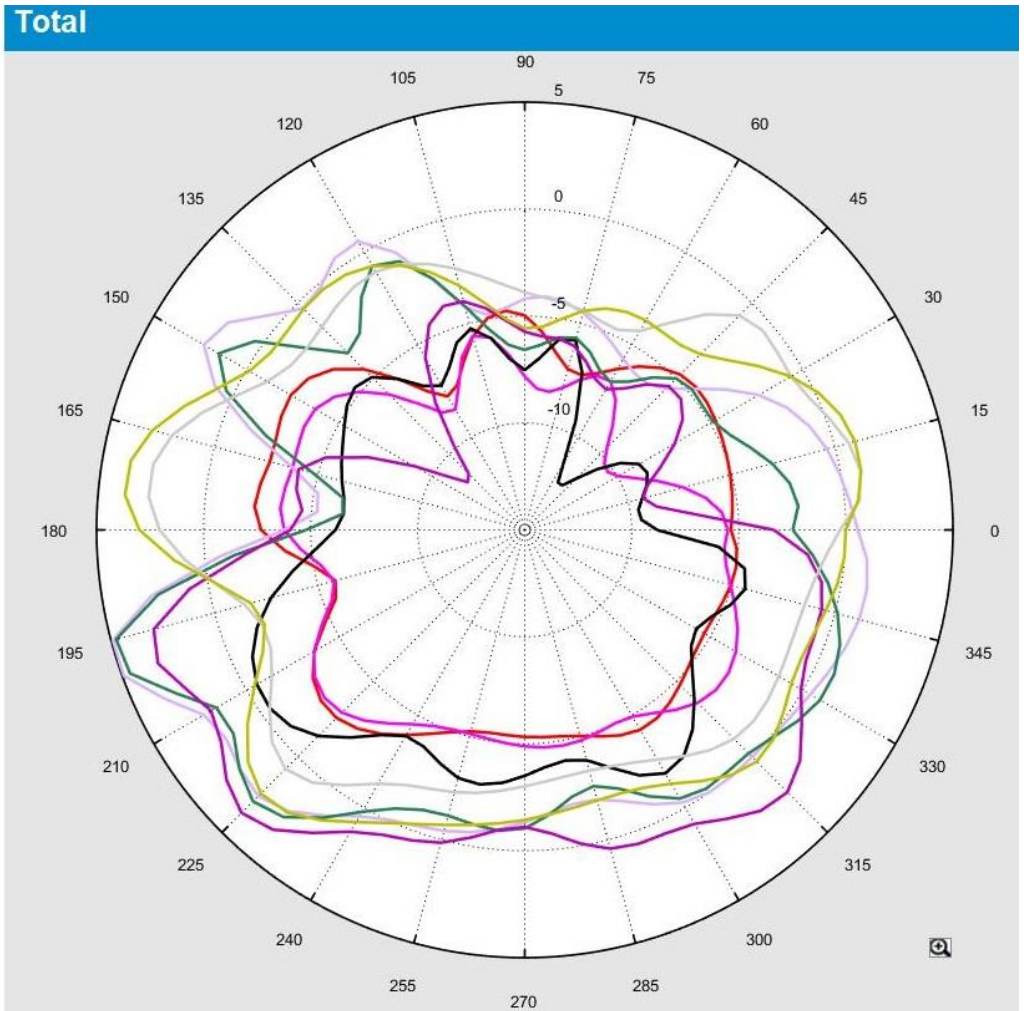
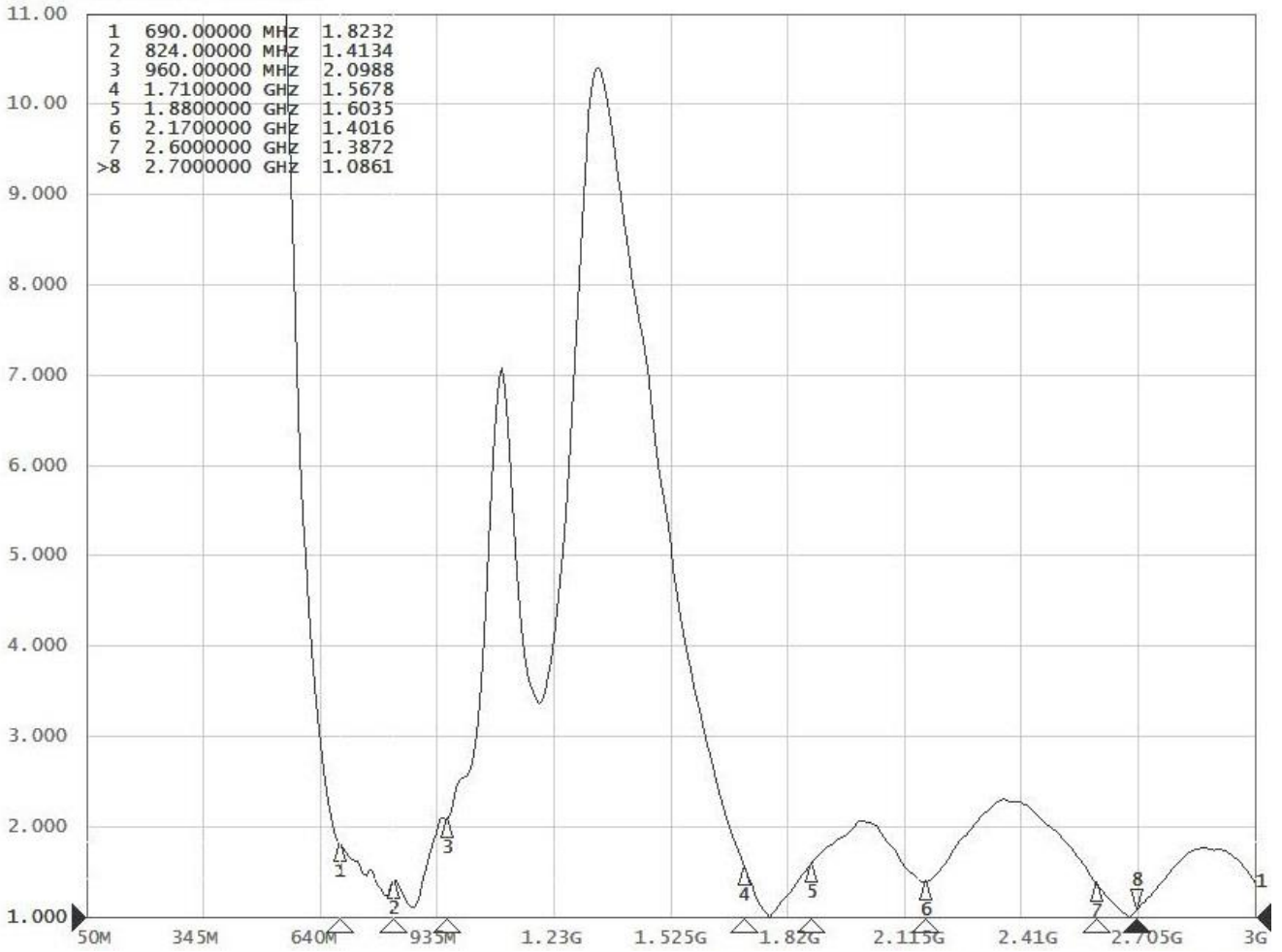
| Frequency (MHz) | Return Loss (dB) | VSWR | Efficiency (%) | GAIN (dB) |
|-----------------|------------------|------|----------------|-----------|
| 690             | -10.82           | 1.82 | 36.81          | -0.88     |
| 824             | -15.11           | 2.41 | 31.48          | -1.3      |
| 960             | -9.08            | 2.09 | 36.56          | 0.24      |
| 1710            | -13.15           | 1.56 | 83.95          | 5.48      |
| 1880            | -12.73           | 1.60 | 74.13          | 5.43      |
| 2170            | -15.63           | 1.40 | 68.39          | 3.71      |
| 2600            | -15.32           | 1.38 | 76.56          | 3.13      |
| 2700            | -25.94           | 1.08 | 83.37          | 3.71      |

### Test Data

Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB



S11 SWR 1.000/ Ref 1.000



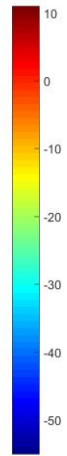
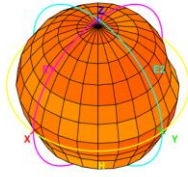
Total\_Efficiency (%)



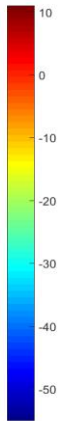
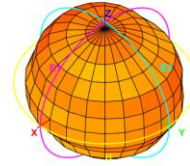
Total\_Gain (dBi)



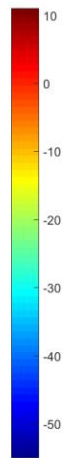
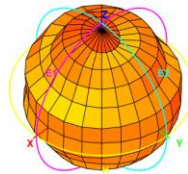
Total\_3D\_Side View 1\_690MHz



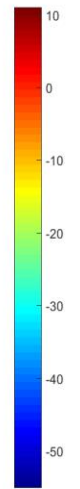
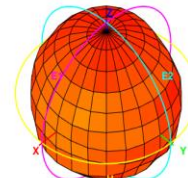
Total\_3D\_Side View 1\_824MHz



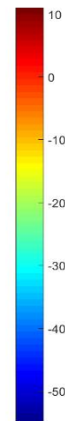
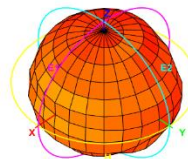
Total\_3D\_Side View 1\_960MHz



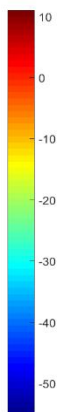
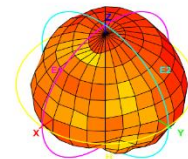
Total\_3D\_Side View 1\_1.71GHz



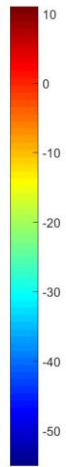
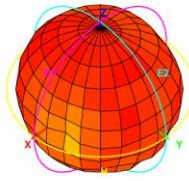
Total\_3D\_Side View 1\_1.88GHz



Total\_3D\_Side View 1\_2.17GHz



Total\_3D\_Side View 1\_2.6GHz



Total\_3D\_Side View 1\_2.7GHz

