

1AD0001CEPLA1US00302

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| Code | | |
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Approval Sheet

Description : LTE Main Antenna

Model No : EPAL-001

Received & Approved by

ON _____ date _____ month _____ year

11F, No. 2, Sec. 4, Jhongyang Rd., Tucheng City , Taipei County, Taiwan(R.O.C), 236



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| Jacky Yeh | Sky Huang | Chris | |

表單編號：

SPECIFICATION

| | |
|-------------------------------|--------------------------|
| 1. Description | LTE Main Antenna |
| 2. Skyline RF Part No. | 1AD0001CEPLA1US00302 |
| 3. Model | EPAL-001 |
| 4. Mechanical Characteristics | |
| Connector Type | MMCX90(RAP) |
| Cable | RG174 |
| Length | 320mm |
| Sponge Adhesive | |
| | |
| 5. Electrical Characteristics | |
| Operating Frequency | 698~960MHz, 1710~2690MHz |
| Impedance | 50ohm |
| Polarization | Linear |
| Gain | See Fig-2 |
| 6. Operating Temperature | -20°C -85°C |
| 7. Storage Temperature | -20°C -85°C |

ELECTRICAL CHARACTERISTICS 電氣特性

| ITEM 項目 | TEST CONDITION 測試環境 | SPECIFICATION 規格 |
|--------------------------|--|---------------------|
| 1 RETURN LOSS 反射損耗 | Using Agilent Network Analyzer E5071B to Measure Antenna S11 Return loss Characteristics 使用 Agilent 網路分析儀 E5071B 測量天線 S11 之返回損耗參數 | See Fig-1 |

| | | | |
|-------------------------------------|--|---|------|
| | | 發行日期: | A1.0 |
| | | 修正日期: | |
| | | 受控日期 | |
| 品名: EPAL-001 | | 客戶:FIC | 規格 |
| | | Operating Frequency : 698~960MHz, 1710~2690MHz Impedance: 50ohm Connector: MMCX90° | |
| 項目日期 01 02 | | 敘述 校訂者版本 | |
| 客戶名稱 Skyline RF TECHNOLOGY, INC. | | 客戶機種 機種編號 1AD0001CEPLA1US00302 單位 mm 比例 日期 20201008 版本 A1 | |
| 容許公差 X.XX±0.15 表面精度 S | | 圖名 機種名稱 承認 外觀圖 EPAL-001 審核 製圖 設計 | |

| QC Item 檢驗項目 | Requirement 品質要求 | QC Method 檢驗方式 | Criteria 檢驗標準 |
|--------------------|---|---|-----------------------------|
| Exterior 外觀 | Cable shall not be bend or damaged. 不可有壓痕與破損 PCB shall not have any scratch. 主體不可刮傷 Soldering point must be flat and smooth. 焊點需平整不可有錫尖 | Visual (Brightness must be higher than 1000 lumens, normal vision, viewing distance 30cm, viewing angle 30° -80°) | Refer to Golden sample 參照樣品 |
| Dimension 尺寸 | As shown in drawing: 140*26mm Cable: 320(±3) mm(insulated cable included) | Vernier caliper 游標卡尺 | Datasheet |
| Electrical 電氣性能 | Transmission | Network Analysor 1. 網路分析儀 | Datasheet |

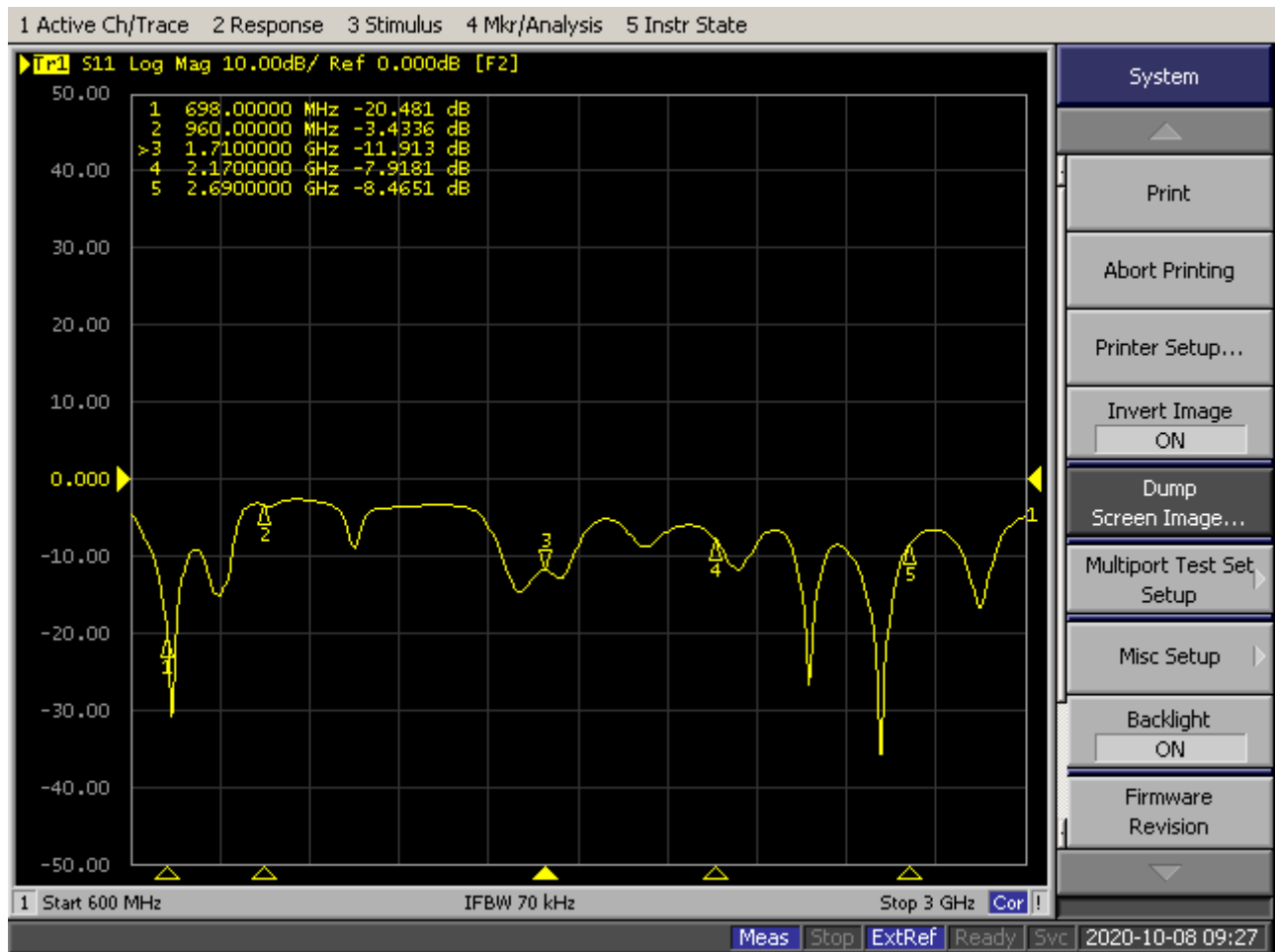


Fig-1

Antenna 3D Gain

| | | | | | | | | | | | | | | | | | |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency (MHz) | 700 | 720 | 740 | 760 | 787 | 800 | 820 | 840 | 860 | 880 | 900 | 920 | 940 | 960 | | | |
| Directivity (dBi) | 3.96 | 4.13 | 4.13 | 4.61 | 4.55 | 4.1 | 4.74 | 4.28 | 3.76 | 5.01 | 6.2 | 5.45 | 4.95 | 4.63 | | | |
| Efficiency (%) | 50.4 | 56.13 | 59.14 | 60.52 | 51.47 | 49.55 | 43.03 | 42.58 | 49.08 | 60.64 | 63.19 | 56.48 | 40.31 | 33.87 | | | |
| 1710 | 1730 | 1750 | 1770 | 1790 | 1810 | 1830 | 1850 | 1870 | 1890 | 1910 | 1930 | 1950 | 1970 | 1990 | | | |
| 5.28 | 5.16 | 4.99 | 5.03 | 5.37 | 5.49 | 5.5 | 5.5 | 5.78 | 6.14 | 6.47 | 6.77 | 6.99 | 7.17 | 7.31 | | | |
| 61.8 | 63.87 | 64.77 | 65.12 | 66.32 | 67.55 | 68.94 | 66.9 | 61.36 | 55.05 | 50.31 | 46.14 | 42.21 | 41.59 | 42.51 | | | |
| 2010 | 2030 | 2050 | 2070 | 2090 | 2110 | 2130 | 2150 | 2170 | 2510 | 2530 | 2550 | 2570 | 2590 | 2610 | 2630 | 2650 | 2690 |
| 7.23 | 7.05 | 6.72 | 6.27 | 5.8 | 5.35 | 4.91 | 4.82 | 4.65 | 5.32 | 3.8 | 4.78 | 4.48 | 5.09 | 5.56 | 6.27 | 6.33 | 6.4 |
| 45.65 | 48.37 | 48.12 | 48.9 | 48.06 | 45.65 | 42.56 | 42.38 | 41.65 | 57.61 | 54.65 | 50.39 | 46.74 | 45.59 | 49.21 | 50.67 | 62.14 | 75.19 |

Fig-2

Antenna 2D Pattern

