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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------|------------------------------------|------------------------------------|--|--------------------------|---------------------|--------------|-----|-------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--|-------------------------|---------------------|--------------|-----|------------------------------|--|------------------------|-----|--------------------|-----------------------------------------------------------------------------------------------------------------|------------------|-----|-------------------|--|--------------------------------------------------------|
| 2014. 4. 18 制定                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              | ANTB24                                                                                                          |                                                          |                        |                                    |                                    |  |                          |                     |              |     |       |                                                                                                                 |                                                          |  |                         |                     |              |     |                              |  |                        |     |                    |                                                                                                                 |                  |     |                   |  |                                                        |
| <p>1、一般事項/General matter</p> <p>1.1 適用範囲/Scope<br/>本仕様書は、無線機器に使用するアンテナについて適用する。<br/>This specification applies to the antenna for radio equipment.</p> <p>1.2 使用温度範囲/Operating temperature range<br/>-20~+60℃</p> <p>1.3 保存温度範囲/Preservation temperature range<br/>-30~+70℃</p> <p>1.4 試験状態/Test conditions<br/>温度5~35℃、相対湿度45~85%、気圧860~1060hpaの標準状態で行う。<br/>但し、判定に疑義を生じた場合は温度20±2℃、相対湿度65±5%、気圧860~1060hpaの基準状態で行う。<br/>The test shall be performed under the standard environment condition: temperature of 5~35℃, relative humidity of 45~85% and atmospheric pressure of 860~1060hpa (if failed, with the above testing procedure, do the following test.)<br/>temperature of 20±2℃, relative humidity of 65±5% and atmospheric pressure of 860~1060hpa.</p> <p>2、外観、構造、寸法/Appearance, structure and dimension</p> <p>2.1 外観/Appearance<br/>各部の仕上げは良好で、機能上有害な錆、割れ、傷等が無いこと。<br/>The finish of each part must be excellent, and there must not be harmful rust, crack and scratch etc. on the function.</p> <p>2.2 構造、寸法/Structure and dimension<br/>個別製品図による。<br/>Specified in each drawing.</p> <p>3、基本性能/Basic characteristics</p> <table border="1"> <thead> <tr> <th></th> <th>検査項目/<br/>Inspection item</th> <th>試験条件/Test condition</th> <th>規格/Standards</th> </tr> </thead> <tbody> <tr> <td>3.1</td> <td>V SWR</td> <td>アンテナ単体を自由空間相当の環境条件に置いて測定する。<br/>Antenna simplex is placed and measured on the environmental terms of free space.</td> <td>2400~2500MHz<br/>において6.0以下<br/>6.0 or less in 2400~2500MHz</td> </tr> <tr> <td></td> <th>保証項目/<br/>Guarantee item</th> <th>試験条件/Test condition</th> <th>規格/Standards</th> </tr> <tr> <td>3.2</td> <td>入力インピーダンス<br/>Input impedance</td> <td></td> <td>50Ω (公称/Nominal value)</td> </tr> <tr> <td>3.3</td> <td>指向性<br/>Directivity</td> <td>アンテナ単体を自由空間相当の環境条件に置いて測定する。<br/>Antenna simplex is placed and measured on the environmental terms of free space.</td> <td>水平面内無指向性<br/>Omni</td> </tr> <tr> <td>3.4</td> <td>最大利得<br/>Peak gain</td> <td></td> <td>0dBi以上、2.14dBi以下<br/>0dBi or more, and 2.14dBi or less.</td> </tr> </tbody> </table> |                              |                                                                                                                 |                                                          |                        |                                    |                                    |  | 検査項目/<br>Inspection item | 試験条件/Test condition | 規格/Standards | 3.1 | V SWR | アンテナ単体を自由空間相当の環境条件に置いて測定する。<br>Antenna simplex is placed and measured on the environmental terms of free space. | 2400~2500MHz<br>において6.0以下<br>6.0 or less in 2400~2500MHz |  | 保証項目/<br>Guarantee item | 試験条件/Test condition | 規格/Standards | 3.2 | 入力インピーダンス<br>Input impedance |  | 50Ω (公称/Nominal value) | 3.3 | 指向性<br>Directivity | アンテナ単体を自由空間相当の環境条件に置いて測定する。<br>Antenna simplex is placed and measured on the environmental terms of free space. | 水平面内無指向性<br>Omni | 3.4 | 最大利得<br>Peak gain |  | 0dBi以上、2.14dBi以下<br>0dBi or more, and 2.14dBi or less. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 検査項目/<br>Inspection item     | 試験条件/Test condition                                                                                             | 規格/Standards                                             |                        |                                    |                                    |  |                          |                     |              |     |       |                                                                                                                 |                                                          |  |                         |                     |              |     |                              |  |                        |     |                    |                                                                                                                 |                  |     |                   |  |                                                        |
| 3.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | V SWR                        | アンテナ単体を自由空間相当の環境条件に置いて測定する。<br>Antenna simplex is placed and measured on the environmental terms of free space. | 2400~2500MHz<br>において6.0以下<br>6.0 or less in 2400~2500MHz |                        |                                    |                                    |  |                          |                     |              |     |       |                                                                                                                 |                                                          |  |                         |                     |              |     |                              |  |                        |     |                    |                                                                                                                 |                  |     |                   |  |                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 保証項目/<br>Guarantee item      | 試験条件/Test condition                                                                                             | 規格/Standards                                             |                        |                                    |                                    |  |                          |                     |              |     |       |                                                                                                                 |                                                          |  |                         |                     |              |     |                              |  |                        |     |                    |                                                                                                                 |                  |     |                   |  |                                                        |
| 3.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 入力インピーダンス<br>Input impedance |                                                                                                                 | 50Ω (公称/Nominal value)                                   |                        |                                    |                                    |  |                          |                     |              |     |       |                                                                                                                 |                                                          |  |                         |                     |              |     |                              |  |                        |     |                    |                                                                                                                 |                  |     |                   |  |                                                        |
| 3.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 指向性<br>Directivity           | アンテナ単体を自由空間相当の環境条件に置いて測定する。<br>Antenna simplex is placed and measured on the environmental terms of free space. | 水平面内無指向性<br>Omni                                         |                        |                                    |                                    |  |                          |                     |              |     |       |                                                                                                                 |                                                          |  |                         |                     |              |     |                              |  |                        |     |                    |                                                                                                                 |                  |     |                   |  |                                                        |
| 3.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 最大利得<br>Peak gain            |                                                                                                                 | 0dBi以上、2.14dBi以下<br>0dBi or more, and 2.14dBi or less.   |                        |                                    |                                    |  |                          |                     |              |     |       |                                                                                                                 |                                                          |  |                         |                     |              |     |                              |  |                        |     |                    |                                                                                                                 |                  |     |                   |  |                                                        |

RoHS  
COMPLIANCE

| 改番<br>REVISION           | 記号<br>SYMB |
|--------------------------|------------|
| <input type="checkbox"/> | △          |
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| 記号<br>SYMB |
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来歴  
DESCRIPTION

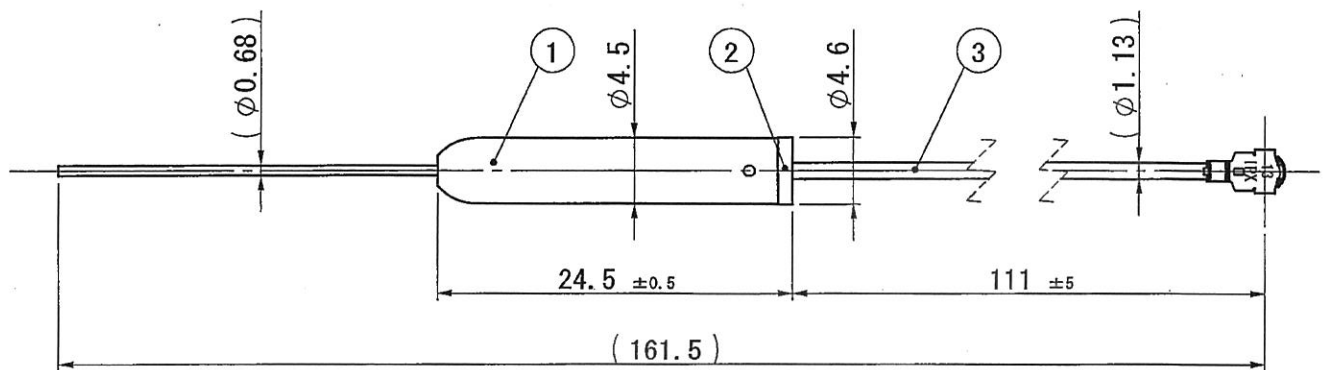
年月日  
DATE

氏名  
NAME

部品コード

PART CODE

TB24094A0C0



注記

1) 適用仕様書: ANT-S-1424

| 3                                             | Cable     | 1                             | Coxial cable  | Black            | Connector:MHF    |
|-----------------------------------------------|-----------|-------------------------------|---------------|------------------|------------------|
| 2                                             | Spacer    | 1                             | POM           | Natural          |                  |
| 1                                             | Element   | 1                             | Brass         | Sn plating       |                  |
| LTR                                           | PART NAME | QTY                           | MATERIAL      | PROCESSING       | REMARK           |
| 角度公差<br>ANGLE                                 | ±3°       | 投影法<br>PROJ                   | 単位<br>UNIT    | 尺度<br>SCALE      | 重量<br>WEIGHT     |
| 100以上<br>ABOVE 100                            | ±0.8      | 承認<br>APVD                    | 検認<br>CHKD    | 製図<br>DRAWN      | 設計<br>DSGD       |
| 50をこえ100未満<br>ABOVE 50 TO 100                 | ±0.5      | 14.3.17                       | 技術<br>14.3.17 | 技術<br>2014年3月17日 | 技術<br>2014年3月17日 |
| 5をこえ50未満<br>ABOVE 5 TO 50                     | ±0.3      |                               |               |                  |                  |
| 5以下<br>UP TO 5                                | ±0.2      |                               |               |                  |                  |
| 指定ナキ許容差<br>TOLERANCES UNLSS<br>OTHERWISE SPEC |           | 製品名 MODEL NO.<br>ANTB24-094A0 |               |                  |                  |
|                                               |           | 図名 TITLE<br>PRODUCT DRAWING   |               |                  |                  |
|                                               |           | 図番 DRAWING NO<br>C14R0302     |               |                  |                  |

SANSEI ELECTRIC CO., LTD

U401540

T16IZS antenna characteristics

|     | gain(dBi) |
|-----|-----------|
| 0   | 1.47      |
| 15  | 1.44      |
| 30  | 1.48      |
| 45  | 1.43      |
| 60  | 1.42      |
| 75  | 1.43      |
| 90  | 1.41      |
| 105 | 1.45      |
| 120 | 1.39      |
| 135 | 1.40      |
| 150 | 1.44      |
| 165 | 1.42      |
| 180 | 1.45      |
| 195 | 1.44      |
| 210 | 1.45      |
| 225 | 1.44      |
| 240 | 1.41      |
| 255 | 1.43      |
| 270 | 1.43      |
| 285 | 1.44      |
| 300 | 1.45      |
| 315 | 1.43      |
| 330 | 1.42      |
| 345 | 1.44      |

