

【TN0035B】 Bluetooth Antenna

1.Specification

| | |
|--------------------|-------------------------------------------------|
| Antenna Type | Inverted-F PCB Antenna |
| Part No. | 135943-757 (PWB) |
| Antenna Gain(Peak) | -1.22 dBi Peak (Assembled state of the product) |
| Frequency Band | 2.402~2.480 GHz |

2.Appearance / Dimension

See fig1 on another sheet . (FCC Test Setup Photo_AUT sheet)

測定内容/Measurement content

1.測定条件/Measurement condition

- ・測定ANT/Measurement ANT : BBHA9120 (0.5~6GHz)
- ・基準ANT/Reference ANT : MA5612B4 (2.25~2.6GHz)
- ・測定器/measuring instrument : E8357A (Agilent network analyzer)

- ・測定距離/Measured distance : 3m (高さ1m/1m high)
- ・測定範囲/range of measurement : 360度/1度ステップ/360 degree/1 degree step
- ・測定レイアウト/Measurement layout : 測定環境は以下のレイアウトで測定
The measurement environment is measured with the following layout.

See fig2 on another sheet. (FCC Test Setup Photo_AUT sheet)

2.測定方向/measurement direction

XY平面

XY plane

XZ平面

XZ plane

See fig3 on another sheet . (FCC Test Setup Photo_AUT sheet)

(RX-ANT_View)

(RX-ANT_View)

- ・測定日時/test dates : 17. Mar. 2022
- ・測定者/names of test personnel : Yamashita Kohji (DENSO TEN Limited)
- ・ソフトウェア/names of commercial test software being used : antmain (DENSO TEN Limited)

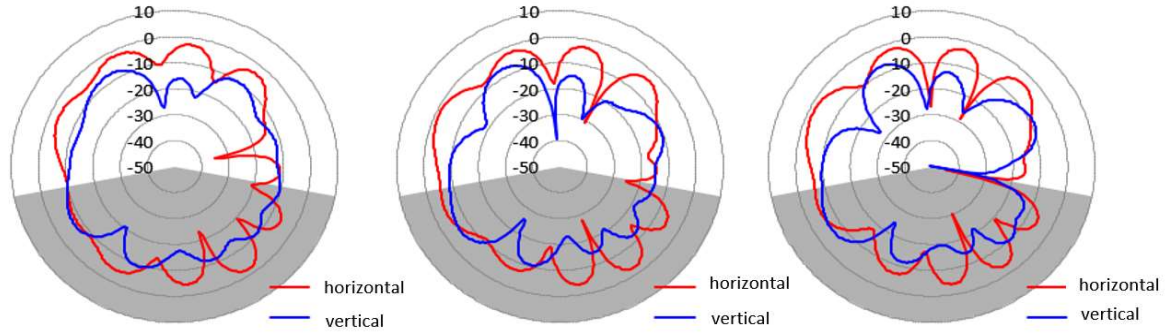
3. アンテナゲイン/antenna gain

| frequency [MHz] | Plane | plane of polarization | ±100° Average [dBi] | ±100° true mean | Composite true value | Composite [dBi] | DIP[dBi] | DIP-AVE [dB] |
|-----------------|-------|-----------------------|---------------------|-----------------|----------------------|-----------------|----------|--------------|
| 2402 | XY | HOR. | -5.92 | 0.26 | 0.33 | -4.81 | -34.71 | 29.84 |
| | | VER. | -11.52 | 0.07 | | | | |
| | XZ | HOR. | -7.40 | 0.18 | 0.39 | -4.13 | -34.98 | 30.85 |
| | | VER. | -6.90 | 0.20 | | | | |
| 2441 | XY | HOR. | -5.36 | 0.29 | 0.35 | -4.54 | -39.31 | 34.77 |
| | | VER. | -12.21 | 0.06 | | | | |
| | XZ | HOR. | -6.97 | 0.20 | 0.32 | -4.98 | -35.27 | 30.29 |
| | | VER. | -9.33 | 0.12 | | | | |
| 2480 | XY | HOR. | -5.66 | 0.27 | 0.33 | -4.79 | -50.88 | 46.09 |
| | | VER. | -12.19 | 0.06 | | | | |
| | XZ | HOR. | -8.06 | 0.16 | 0.24 | -6.16 | -37.77 | 31.61 |
| | | VER. | -10.66 | 0.09 | | | | |

*Correction during measurement: cable loss = 0.24 dB After correction **-4.63 dBi Ave**
-1.22 dBi Max Peak

Radio wave radiation pattern (directivity graph)

XY-plane @2402/2441/2480 MHz



XZ-plane @2402/2441/2480 MHz

