

GHT25-0349

Antenna Datasheet

TITLE : AP01ML2727492C0 SERIES
AP01ML2727492C0 シリーズ

1. 特徴 Features

- 無線 LAN 向け 2.4 – 2.5 GHz / 5.15 – 5.85 GHz / 5.925–7.125 GHz アンテナ
2.4 – 2.5 GHz / 5.15 – 5.85 GHz / 5.925–7.125 GHz Antenna for WLAN
- 小型 Compact size
- 高効率 High efficiency
- 細線同軸ケーブル付き PCB PCB with a microcoax cable

* PCB (Printed Circuit Board)

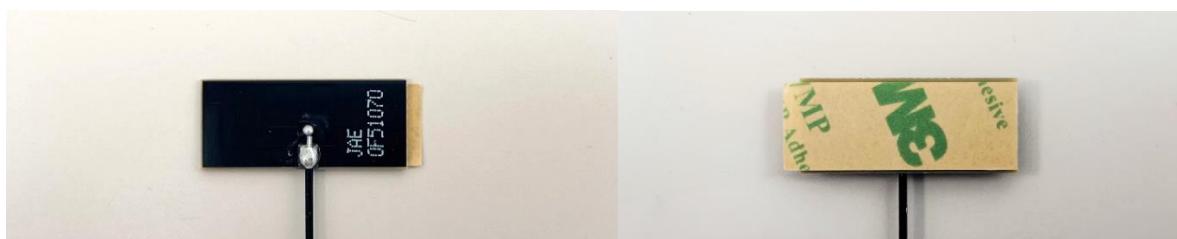
2. 品名 Product name

単品 Single unit;

Part Number	Connector	Cable Length [mm]
AP02ML2727492C0	U.FL / MHF1 Equivalent	200

3. 形状、寸法と重量 Shape, dimensions and weight

3.1. 形状 Shape

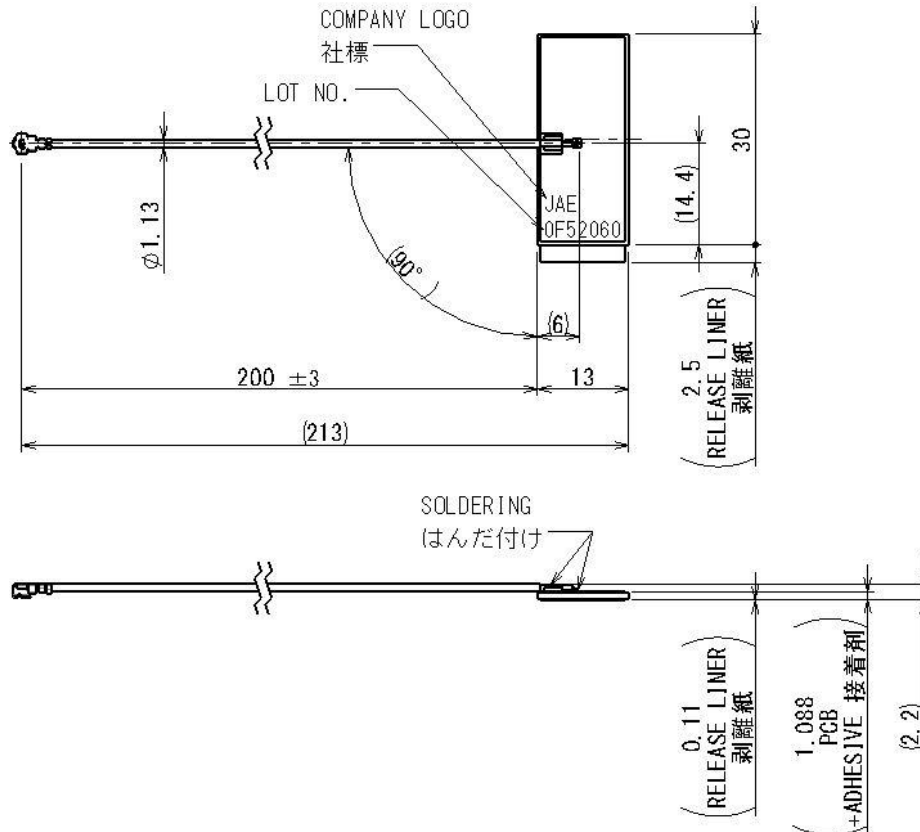


3.2. 寸法 Dimensions

PCB 30 (width) × 13 (depth) × 1.1 (height) mm

接着剤の厚みを含み、剥離紙の厚みを除く

Including adhesive thickness and excluding release liner thickness



3.3. ケーブル Cable

$\phi 1.13$ mm

Length 200 mm

3.4. コネクタ Connector

U.FL / MHF1 相当 U.FL / MHF1 Equivalent

3.5. 重量 Weight

1.56 g

200 mm ケーブルを含み剥離紙の重量を含まない、典型値

including 200 mm cable and excluding release liner weight, typical value

3.6. 方式 Type

スプリットリング Split Ring

3.7. PCB 材料 Material

FR-4

3.8. 両面テープ Double-sided tape

3M 467MP

4. 高周波特性 RF characteristics

4.1. 周波数帯域 Frequency range

2.4 – 2.5 GHz / 5.15 – 5.85 GHz / 5.925–7.125 GHz

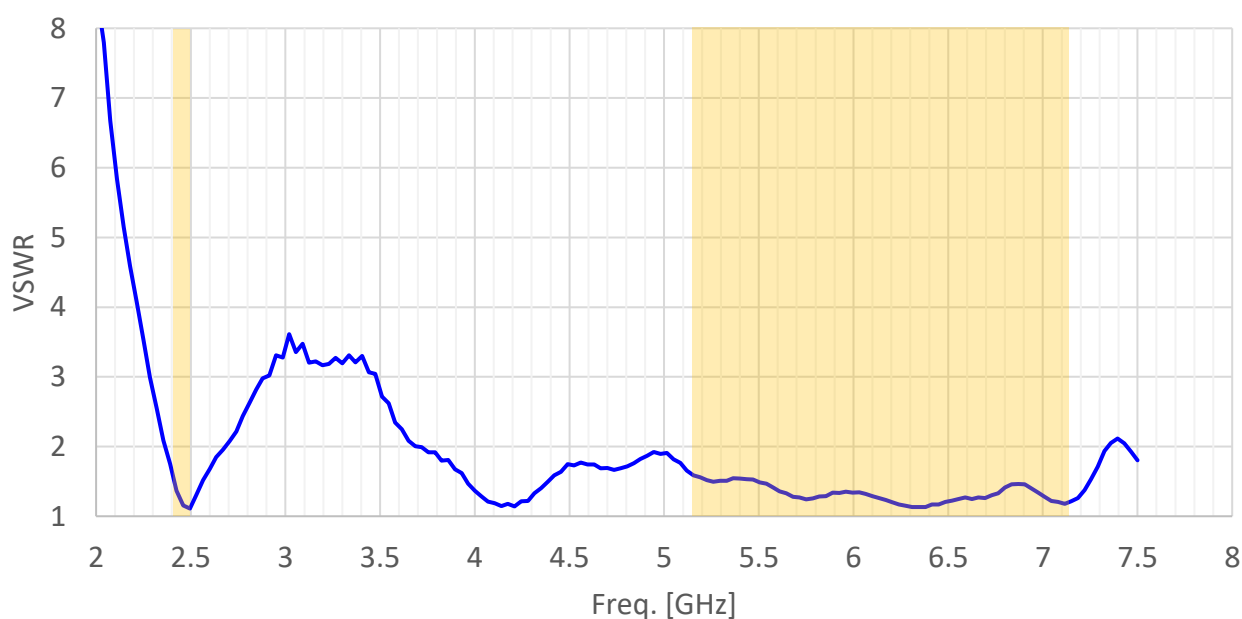
4.2. インピーダンス Impedance

50 Ω

4.3. Voltage standing wave ratio (VSWR)

2mm 厚の ABS 板貼り付け時の VSWR 特性例

VSWR characteristics of the antenna on a 2-mm thickness ABS board

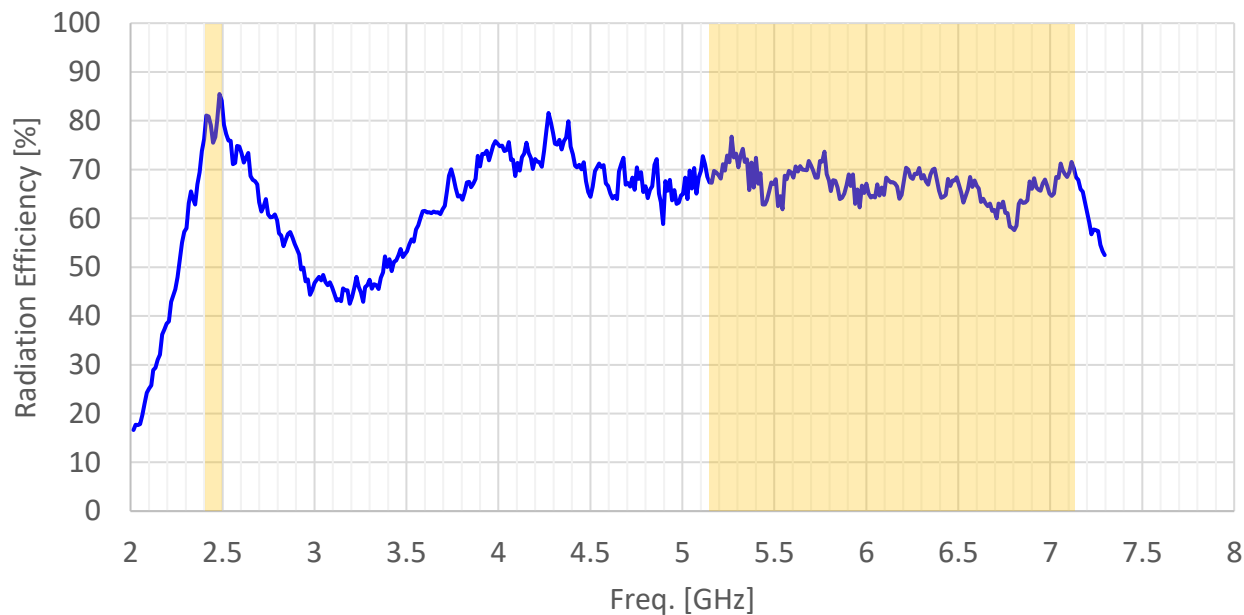


4.4. 放射効率 Radiation efficiency

2mm 厚の ABS 板貼り付け時の放射効率特性例、ケーブル損を含む

Radiation efficiency of the antenna mounted on a 2-mm thickness ABS board

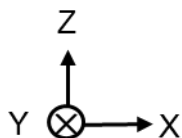
(including cable loss)



4.5. 放射パターン Radiation pattern

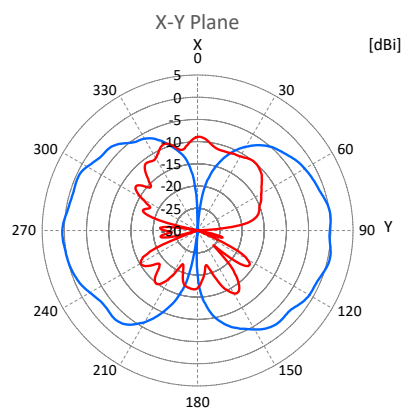
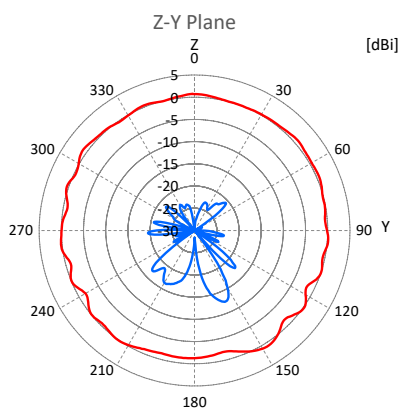
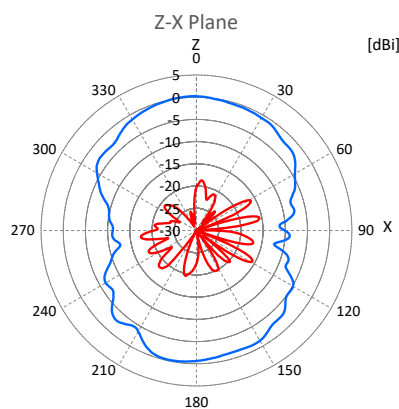
2mm 厚の ABS 板貼り付け時の放射パターン特性例

Radiation pattern of the antenna mounted on a 2-mm thickness ABS board

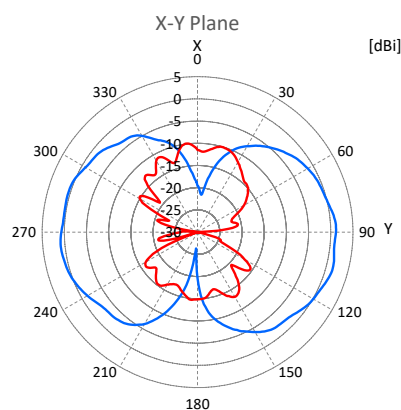
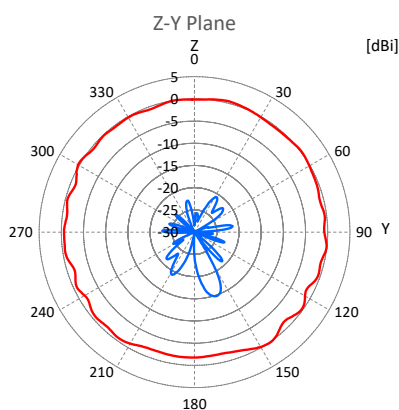
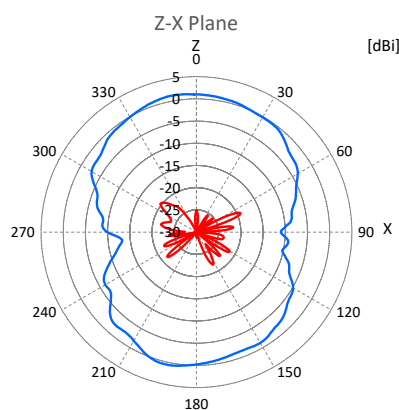


Radiation pattern

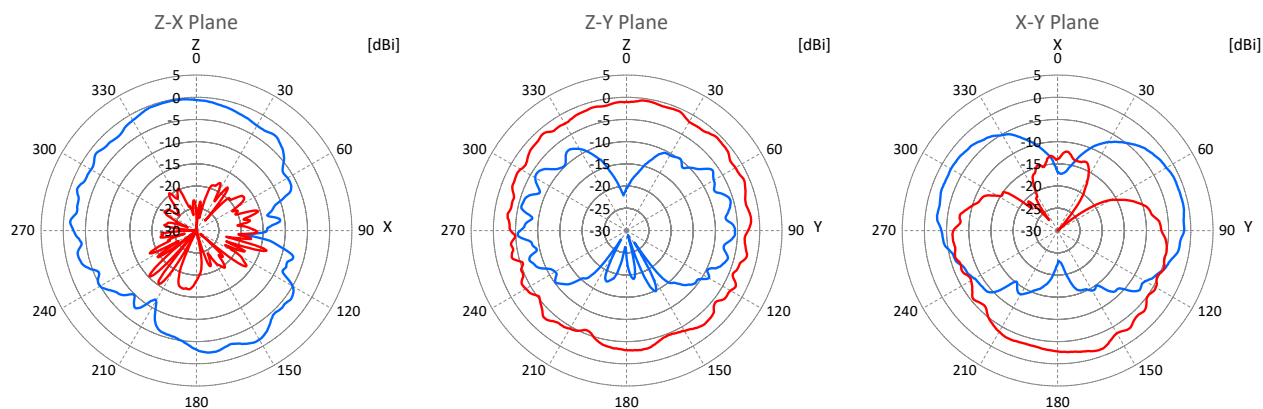
2.4 GHz



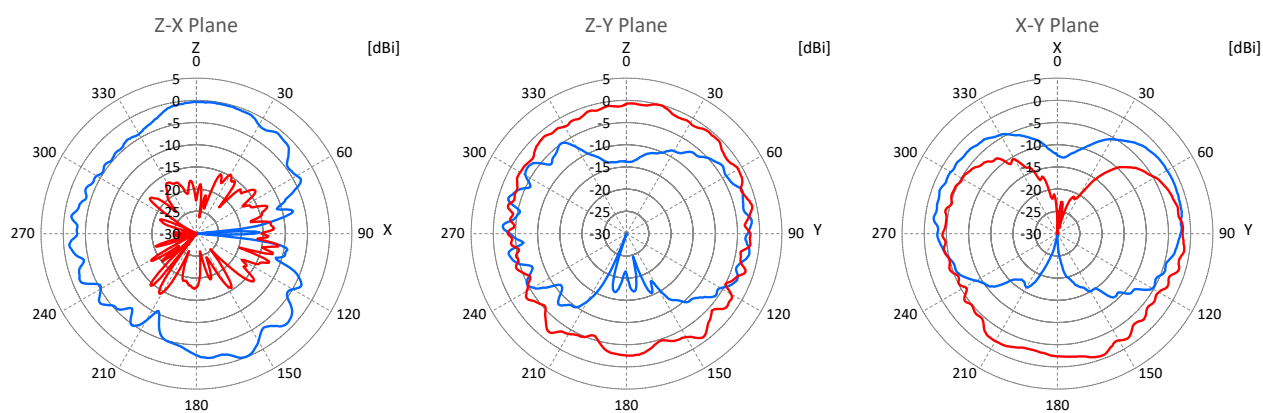
2.5 GHz



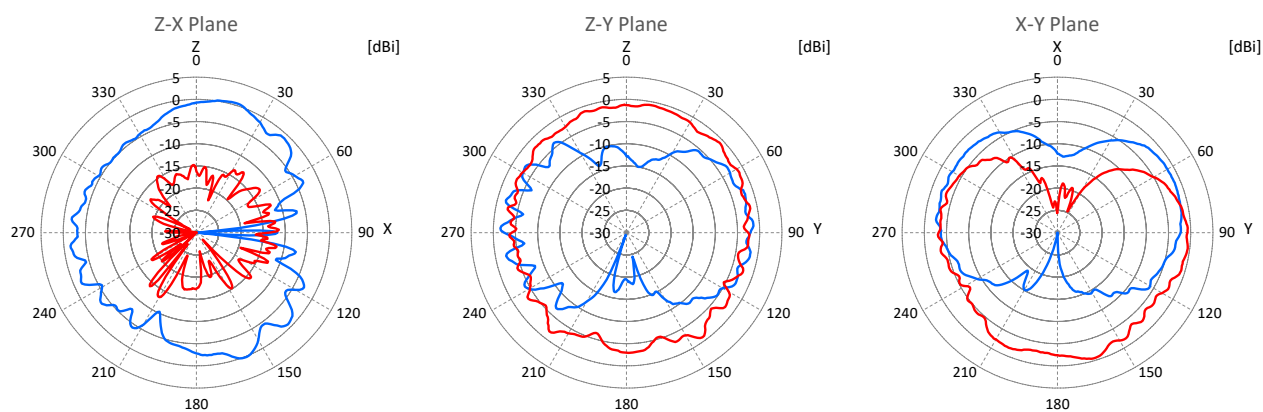
5.15 GHz



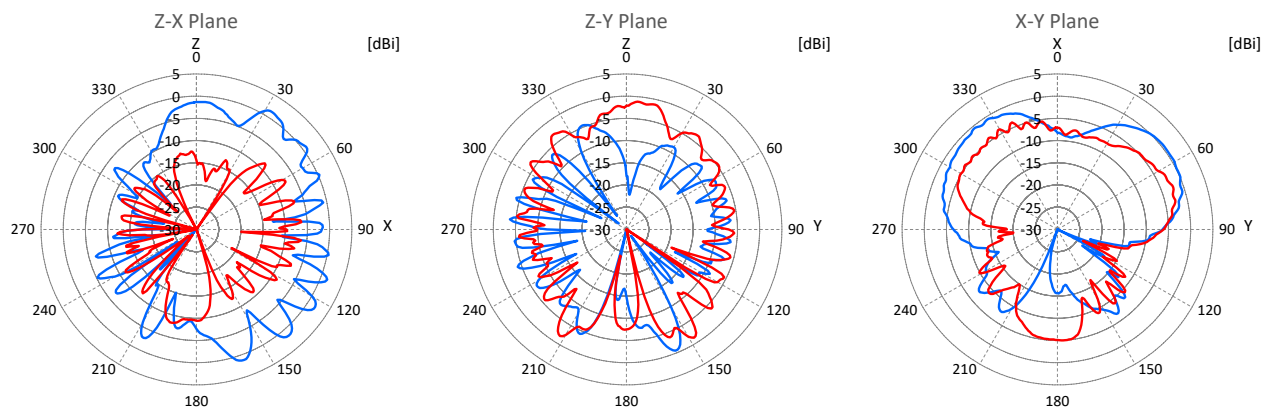
5.85 GHz



5.925 GHz



7.125 GHz



青線 Blue line: 水平偏波 Horizontal polarization

赤線 Red line: 垂直偏波 Vertical polarization

Peak gain of the main polarization component in the ZX, ZY and XY planes

Frequency [GHz]	Peak gain [dBi] (Main Polarization Component) Cable length 200mm
2.4	0.98
2.5	1.54
5.15	-0.25
5.85	-0.07
5.925	0.50
7.125	1.93

- 5. 環境条件 Environmental conditions
 - 5.1. 使用温度範囲 Operating temperature range
 - 40 °C to +85 °C
 - 5.2. 保存条件 Storage conditions
 - IEC 60721-3-1
 - 保存温度 Stock temperature range
 - 5 °C to +45 °C
 - 相对湿度 Relative humidity
 - 5 % to 95 %

改版履歴 Revision history

文書番号 Document number	日付 Date	改版 Revision
GHT25-0349	07 Mar. 2025	初版 Initial version