

Antenna Datasheet

TITLE : AP01DL2530755C0

For Snap One, LLC.

1. Features

- 2.4 – 2.5 GHz / 5.15 – 5.85 GHz Antenna for WLAN
- Compact size
- High efficiency
- PCB* with a microcoax cable

* PCB (Printed Circuit Board)

2. Product name

Single unit;

Part Number	Connector	Cable Length [mm]
AP01DL2530755C0	MH4L Equivalent	75

3. Shape, dimensions and weight

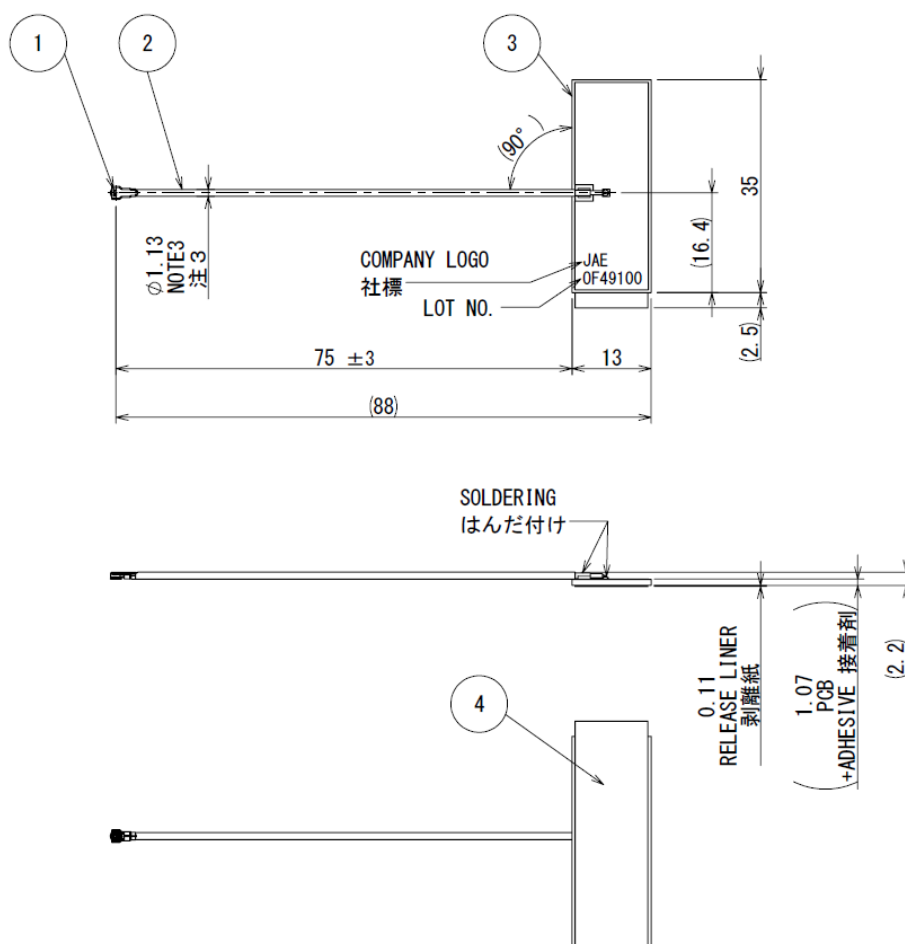
3.1. Shape



3.2. Dimensions

PCB 35 (width) × 13 (depth) × 1.1 (height) mm

Including adhesive thickness and excluding release liner thickness



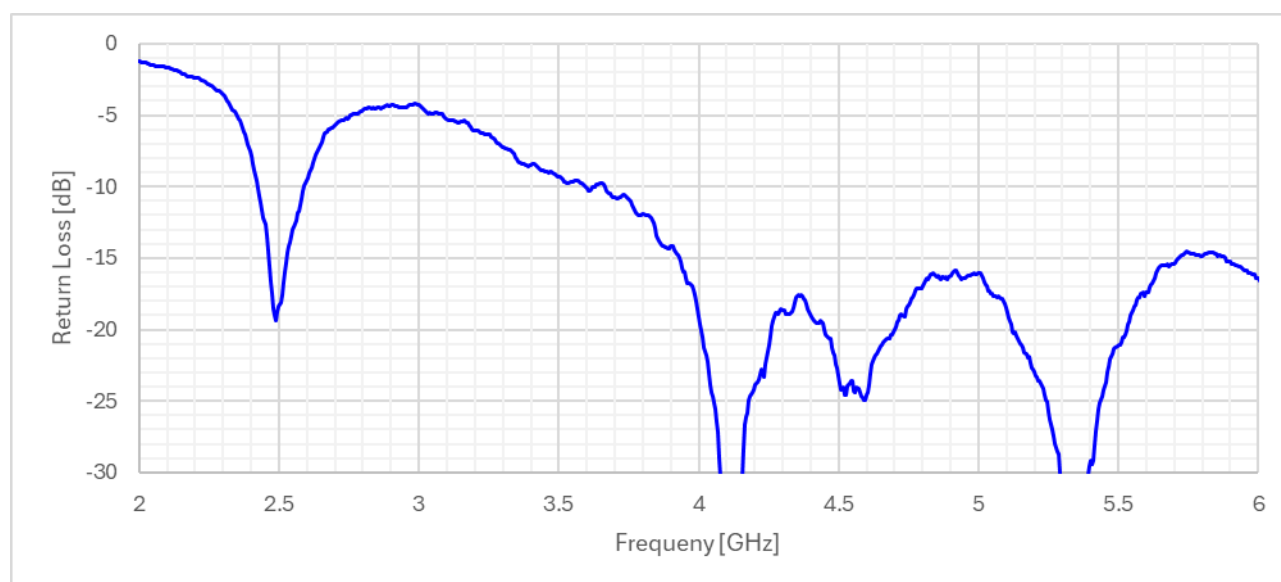
- 3.3. Cable
 - $\phi 1.13$ mm
 - Length 75 mm
- 3.4. Connector
 - MHF4L Equivalent
- 3.5. Weight
 - 1.33 g
 - Including 75 mm cable and release liner weight, typical value
- 3.6. Type
 - Split Ring
- 3.7. Material
 - FR-4
- 3.8. Double-sided tape
 - 3M 467MP

4. RF characteristics

- 4.1. Frequency range
 - 2.4 – 2.5 GHz / 5.15 – 5.85 GHz

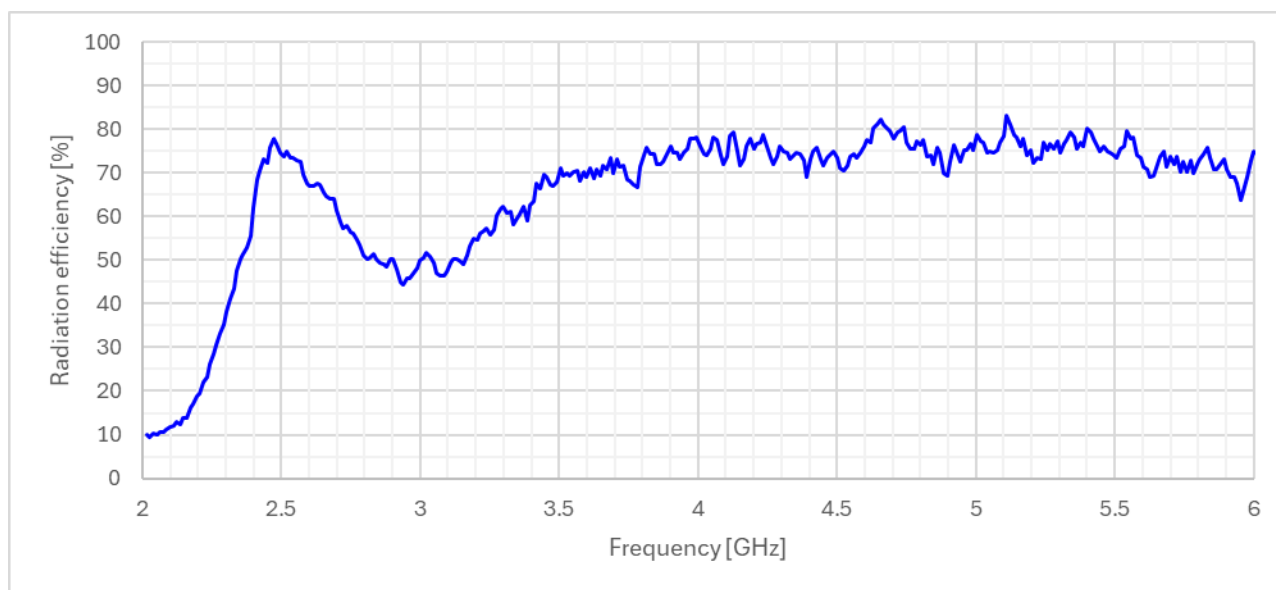
- 4.2. Impedance
 - 50 Ω

- 4.3. Return loss
 - Return loss characteristics of the antenna on a tablet case of 10.5 inch



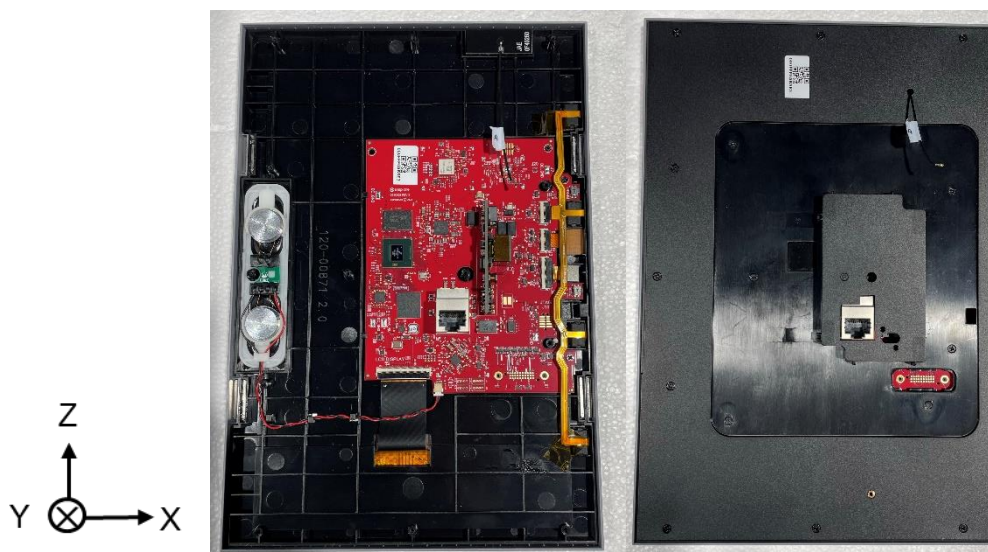
4.4. Radiation efficiency

Radiation efficiency of the antenna mounted on a tablet case of 10.5 inch



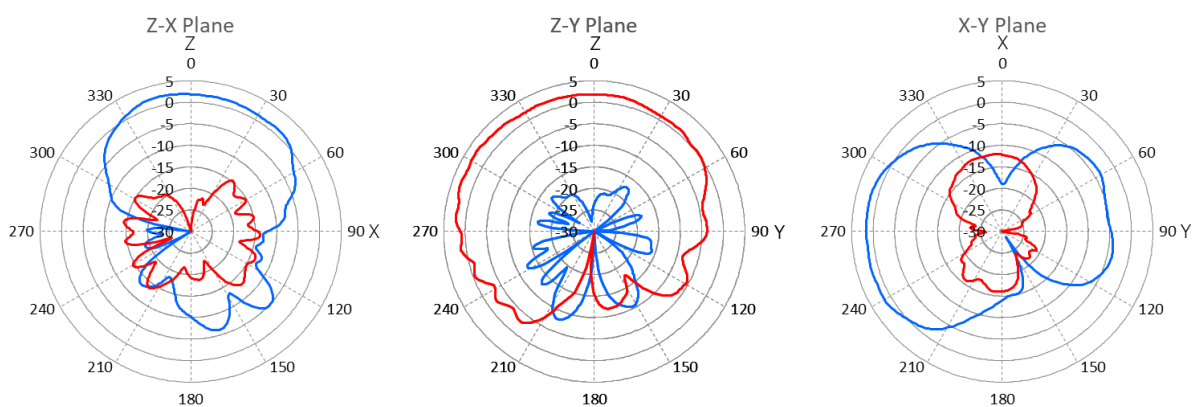
4.5. Radiation pattern

Radiation pattern of the antenna mounted on a tablet case of 10.5 inch

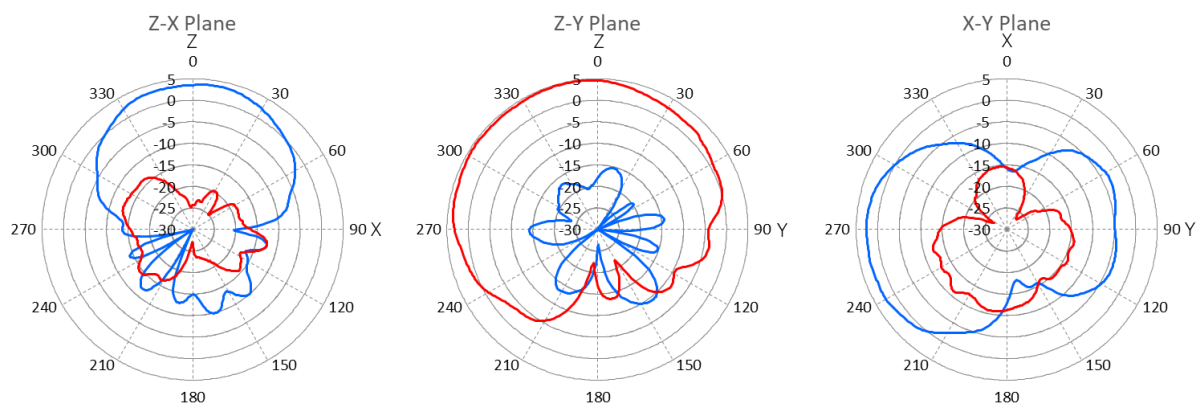


Radiation pattern

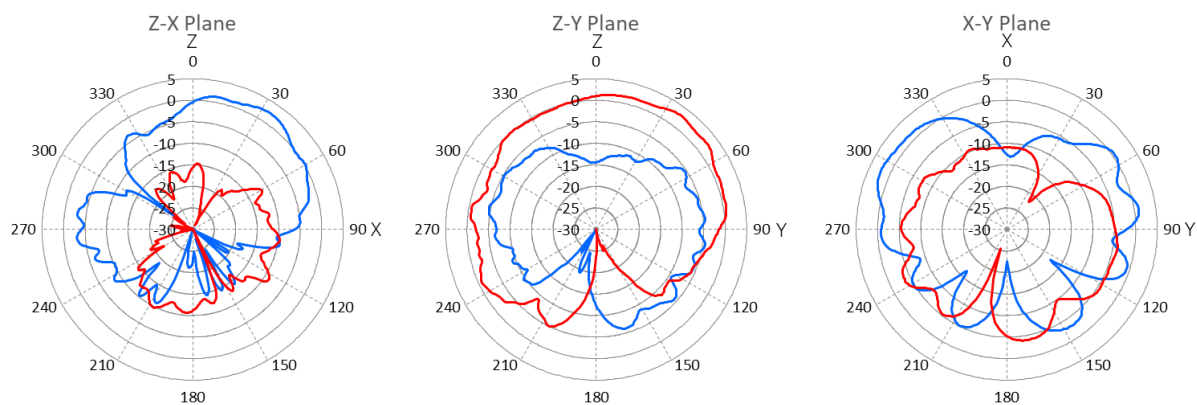
2.4 GHz



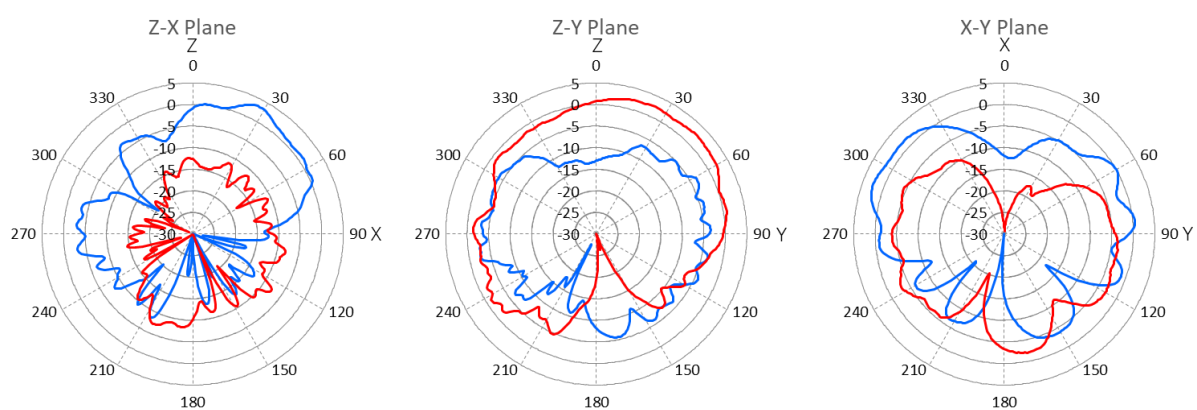
2.5 GHz



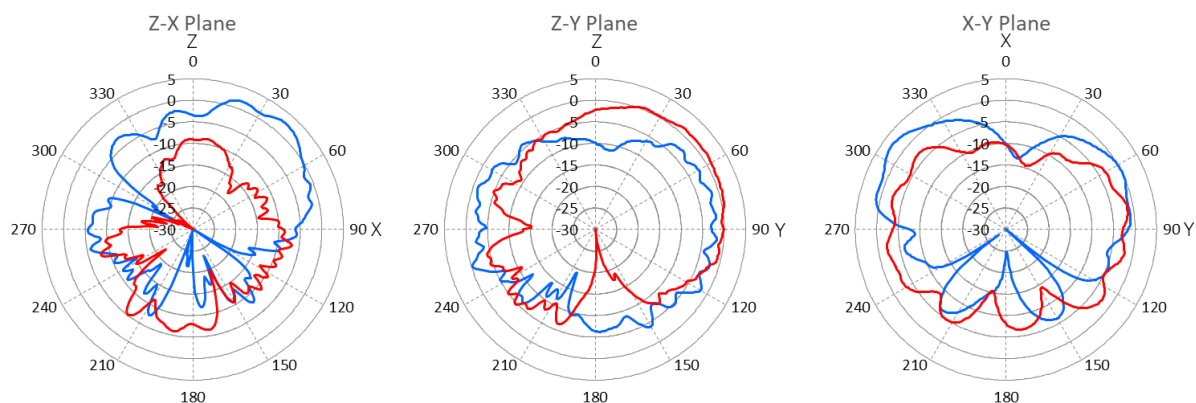
5.15 GHz



5.35 GHz



5.85 GHz



Blue line: Horizontal polarization

Red line: Vertical polarization

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

Frequency [GHz]	Peak gain [dBi] (Main Polarization Component) On a tablet case of 10.5 inch
2.4	3.03
2.5	4.75
5.15	3.00
5.35	3.33
5.85	2.94

- 5. Environmental conditions
 - 5.1. Operating temperature range
 - 40 °C to +85 °C
 - 5.2. Storage conditions
 - IEC 61760-2
 - Stock temperature range
 - +5 °C to +40 °C
 - Relative humidity
 - 10 % to 75 %

Revision history

Document number	Date	Revision
GHT24-1617	25 Oct, 2024	Preliminary version