

FPC Dipole Antenna (LPWA/LTE) YMA8-504B

The FPC Dipole Antenna is a high-performance omnidirectional antenna designed to meet IoT (Internet of Things) applications in the 800-900MHz and 2GHz bands. Its small size allows for easy integration into compact devices. Additionally, it is designed to be independent of any ground plane, making it easy to embed by simply connecting it to a communication module with a high-frequency connector.

- **Frequency Range:** 814~960[MHz], 1428~2170[MHz]
- **Dimensions :** L100 x W13
- **Standard Cable Length :** 140 mm
- **Connector :** U.FL

Typical Applications:

Smart tracking devices, Smart meters, Logistics management, Agricultural and Dairy Terminals, etc.



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1. Specifications

Electrical					
Frequency [MHz]	Peak Gain [dBi]	VSWR	Impedance	Polarization	Radiation Pattern
814-960	0 ~ 3.0	3.0 or less	50 ohm	Linear	Omni-Directional
1428-2690	0 ~ 3.0	3.0 or less			

General Specification	
Frequency	814~960[MHz]/1428~2170[MHz]
Antenna Type	λ /2 dipole antenna
Maximum Absolute Gain	3[dBi] or less
Impedance	50 Ω
Connector Type	U.FL

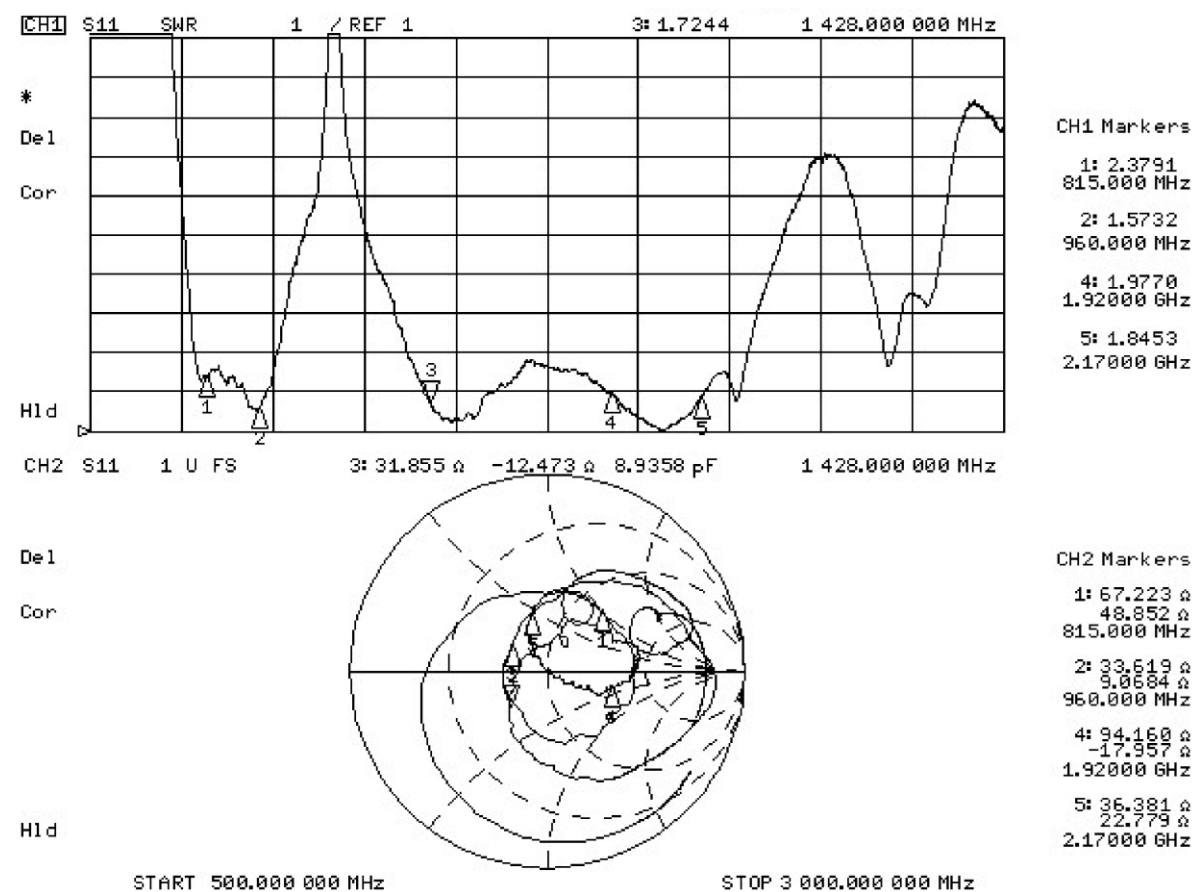
Mechanical	
Dimensions	77mm x 20mm, t=1mm
Weight	4.0g
Waterproof Rating	NA
Cable	140mm

Environmental	
Operational Temperature Range	-40℃~+85℃
Storage Temperature Range	-40℃~+85℃ (Antenna Alone Condition)

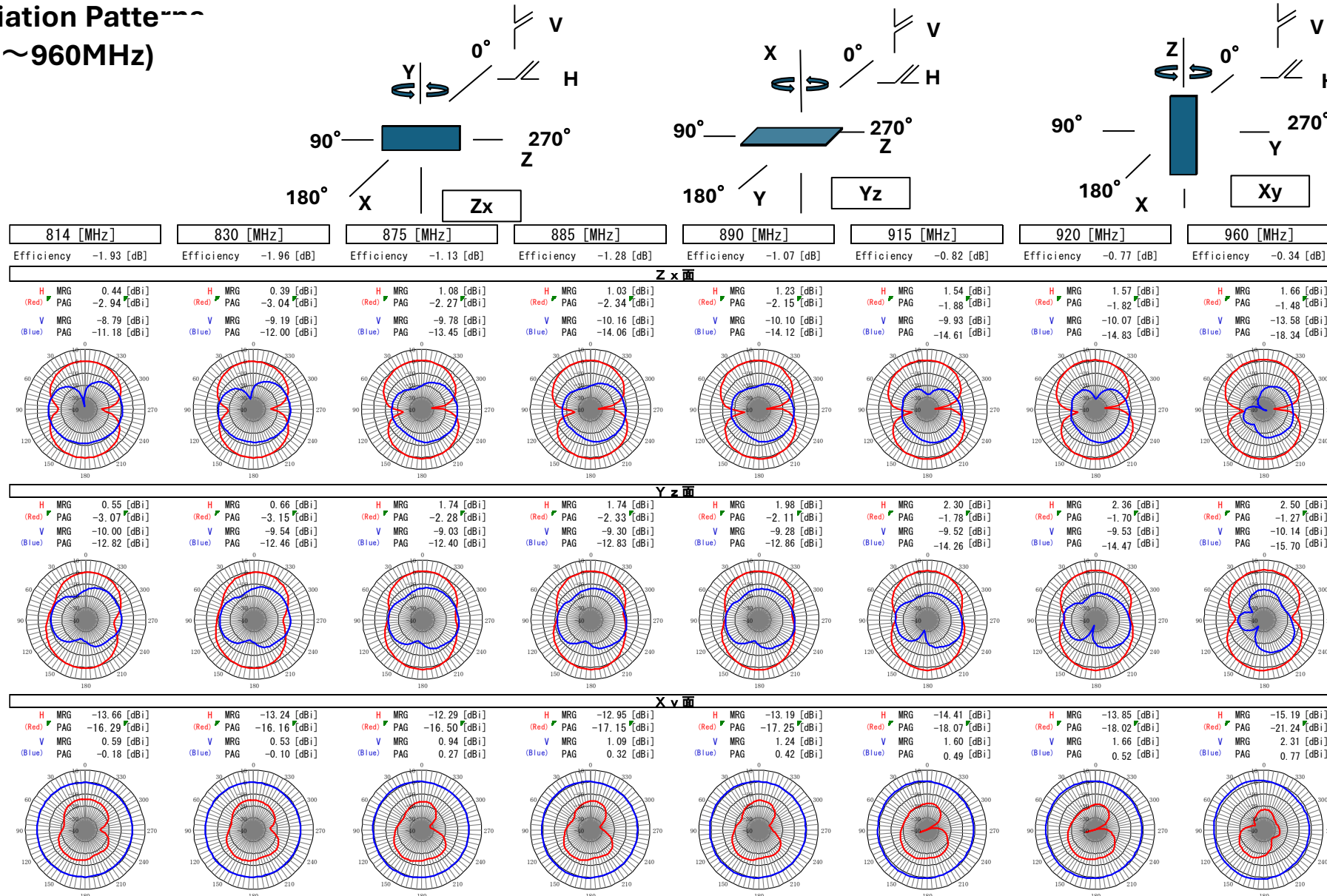
2. Antenna Characteristics

VSWR/Impedance

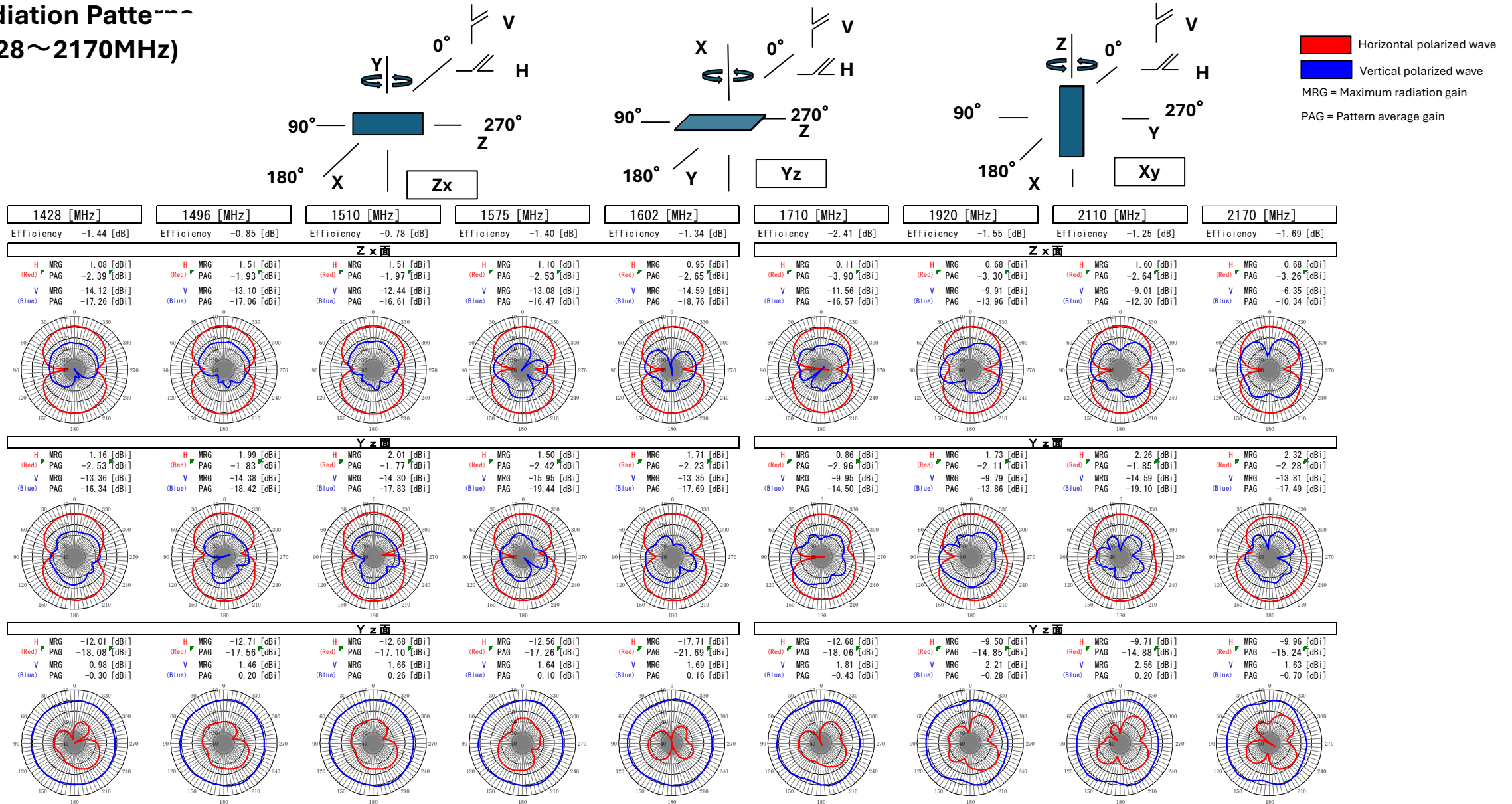
This antenna is designed to be attached to non-conductive enclosures made of resins such as ABS or PC, used in wireless devices. The antenna characteristics in this document are measured on ABS (1.5mm thickness).



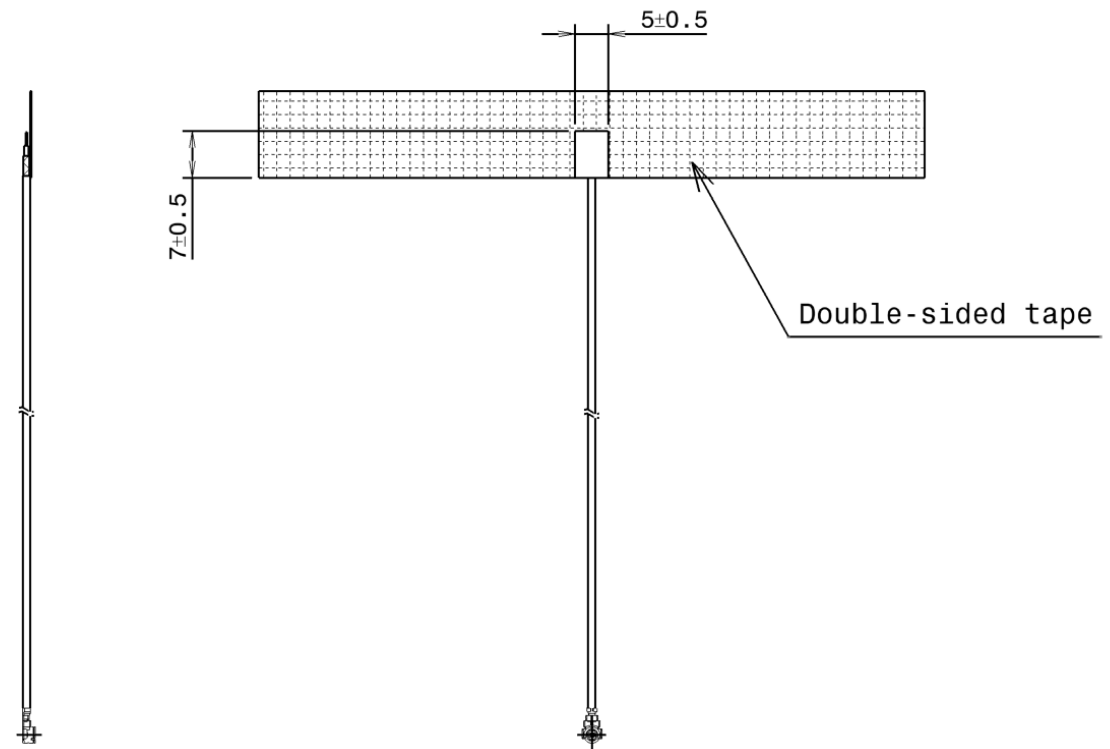
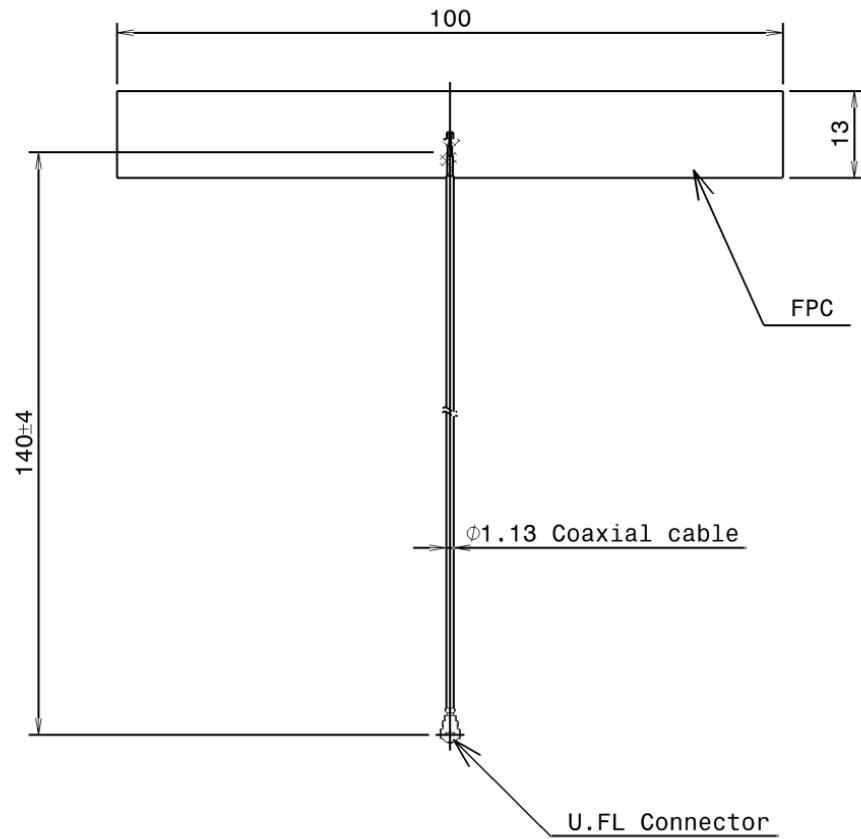
3. Radiation Pattern (814~960MHz)



3. Radiation Pattern (1428~2170MHz)



4. Mechanical Drawing



4. Packaging

Each antenna is individually sealed in a resealable bag, with 25 antennas per bag. These bags are packed into a corrugated box with four sections, each holding 10 bags (a total of 1000 antennas). (Packaging unit may vary depending on the production lot.)

