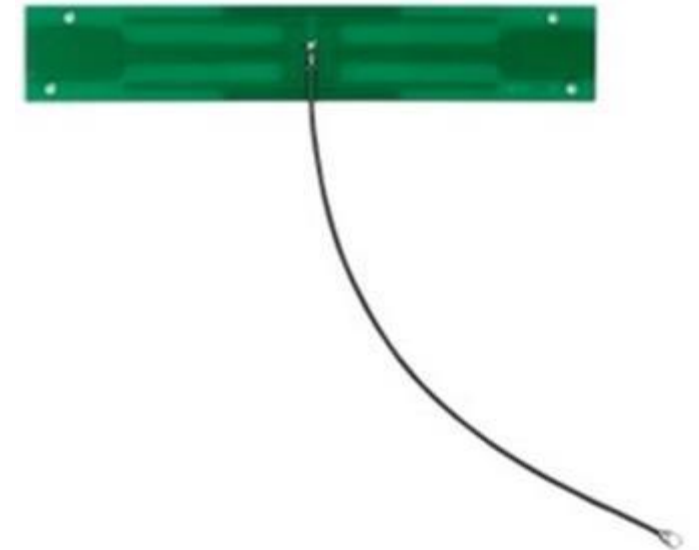


High Performance PCB Antenna (LPWA/LTE) YMA8-391B

This high-performance omnidirectional dipole antenna is designed for the 800-900MHz and 2GHz bands. Notably, it features a compact 120mm element design which can penetrate obstacles to maximize performance in the 800-900MHz band. The design does not rely on a ground plane, allowing for easy integration into communication modules via a high-frequency connector. It boasts exceptional radiation efficiency across all bands and maintains its characteristics even when mounted in resin-based dielectric cases. When installed at least 10mm, and ideally more than 20mm, away from metal parts or surfaces.

- **Frequency Range:** 815~960[MHz], 1428~2170[MHz]
- **Dimensions :** L120 x W20
- **Standard Cable Length :** 130 mm
- **Connector :** U.FL



Typical Applications:
Smart tracking devices, Logistics management, Agricultural and Dairy Terminals, etc.

1. Specifications
2. Antenna Characteristics
3. Radiation Patterns
4. Mechanical Drawing
5. Packaging

1. Specifications

Electrical					
Frequency [MHz]	Peak Gain [dBi]	VSWR	Impedance	Polarization	Radiation Pattern
815-960	-0 ~ 3.0	4.0 or less	50 ohm	Linear	Omni-Directional
1428-2170	-0 ~ 3.0	3.0 or less			

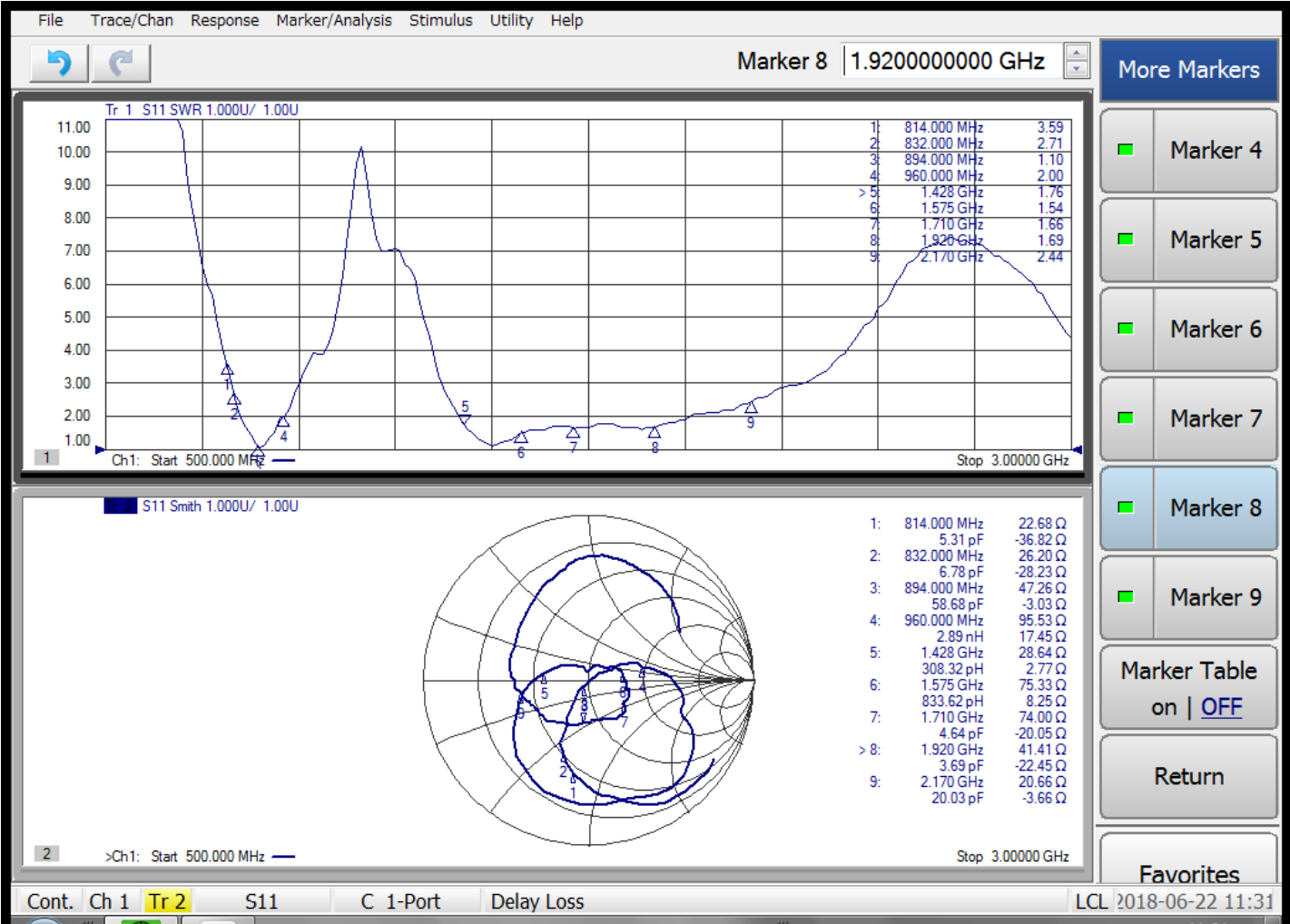
General Specification	
Frequency	815~960[MHz]/1428~2170[MHz]
Antenna Type	$\lambda/2$ dipole antenna
Connector Type	U.FL

Mechanical	
Dimensions	120mm x 20mm, t=1mm
Weight	5.2g
Waterproof Rating	NA
Cable	130mm

Environmental	
Operational Temperature Range	-40℃~+90℃
Storage Temperature Range	-40℃~+90℃ (Antenna Alone Condition)

2. Antenna Characteristics

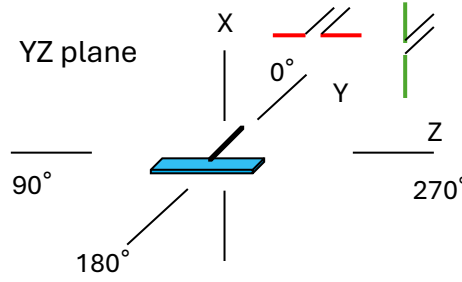
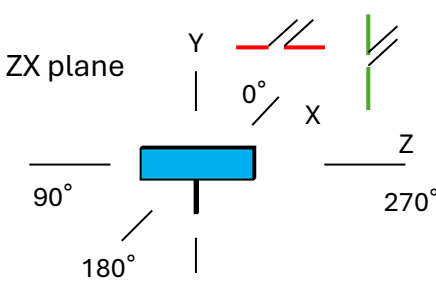
VSWR



3. Radiation Patterns
(890~960MHz)

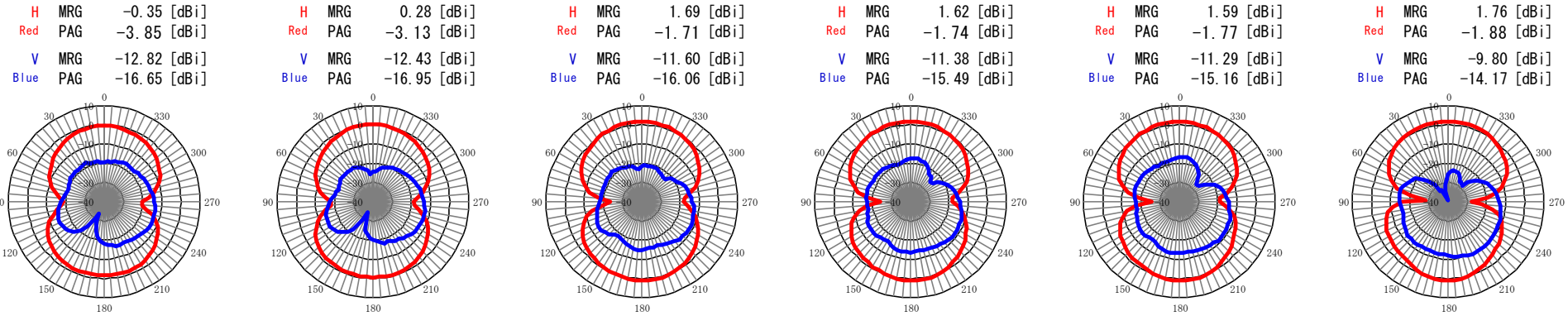
Horizontal polarized wave
Vertical polarized wave

MRG = Maximum radiation gain
PAG = Pattern average gain

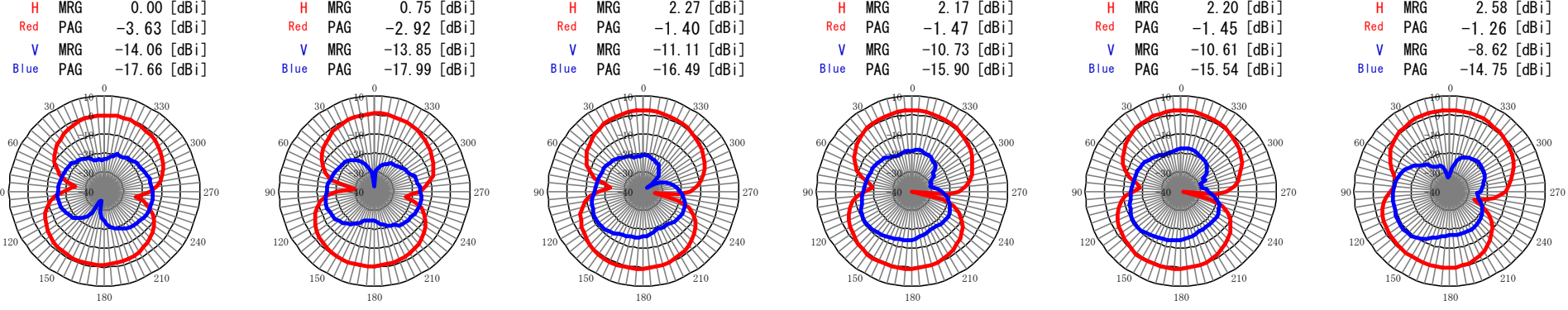


814 [MHz]	832 [MHz]	875 [MHz]	894 [MHz]	900 [MHz]	960 [MHz]
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Z X Plane



Y Z Plane

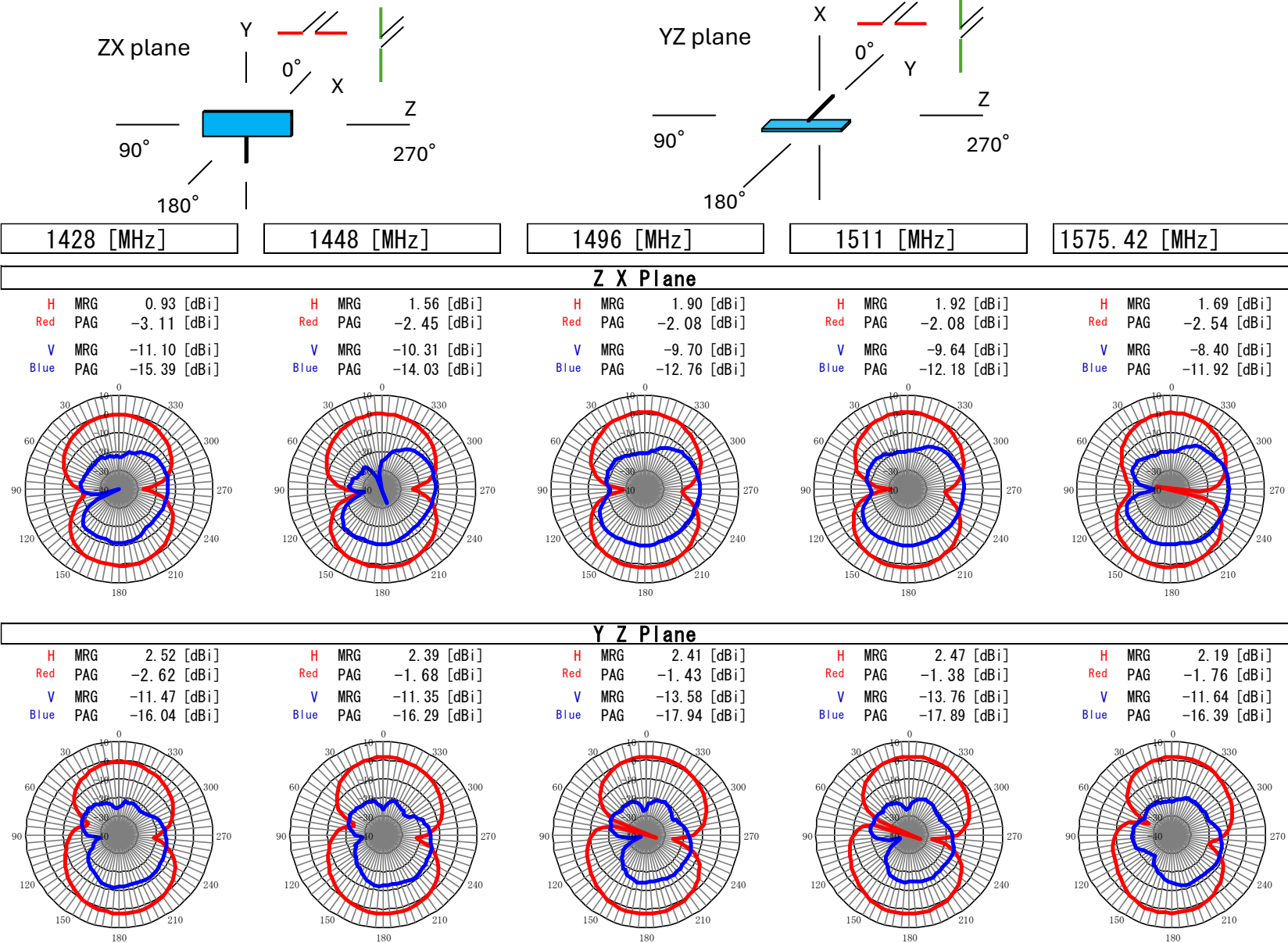


3. Radiation Patterns
(1428~1575.42MHz)

■ Horizontal polarized wave
■ Vertical polarized wave

MRG = Maximum radiation gain

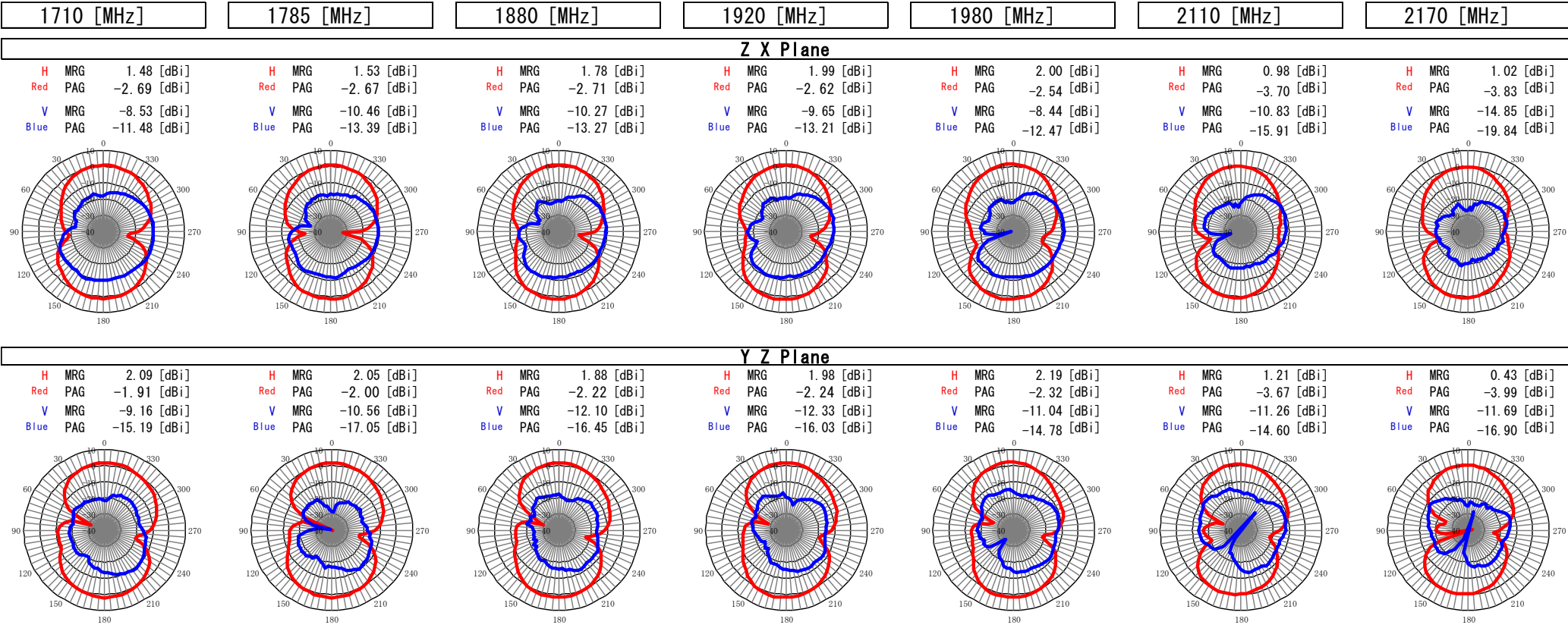
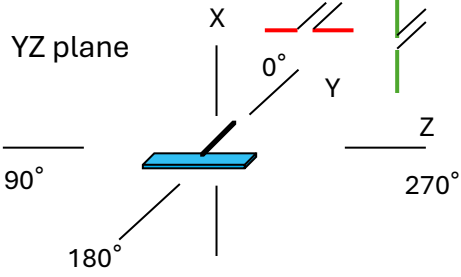
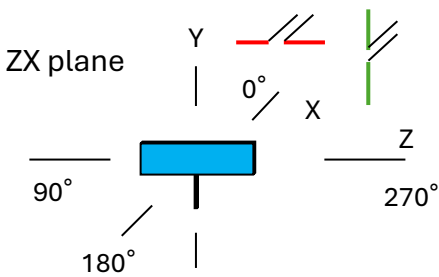
PAG = Pattern average gain



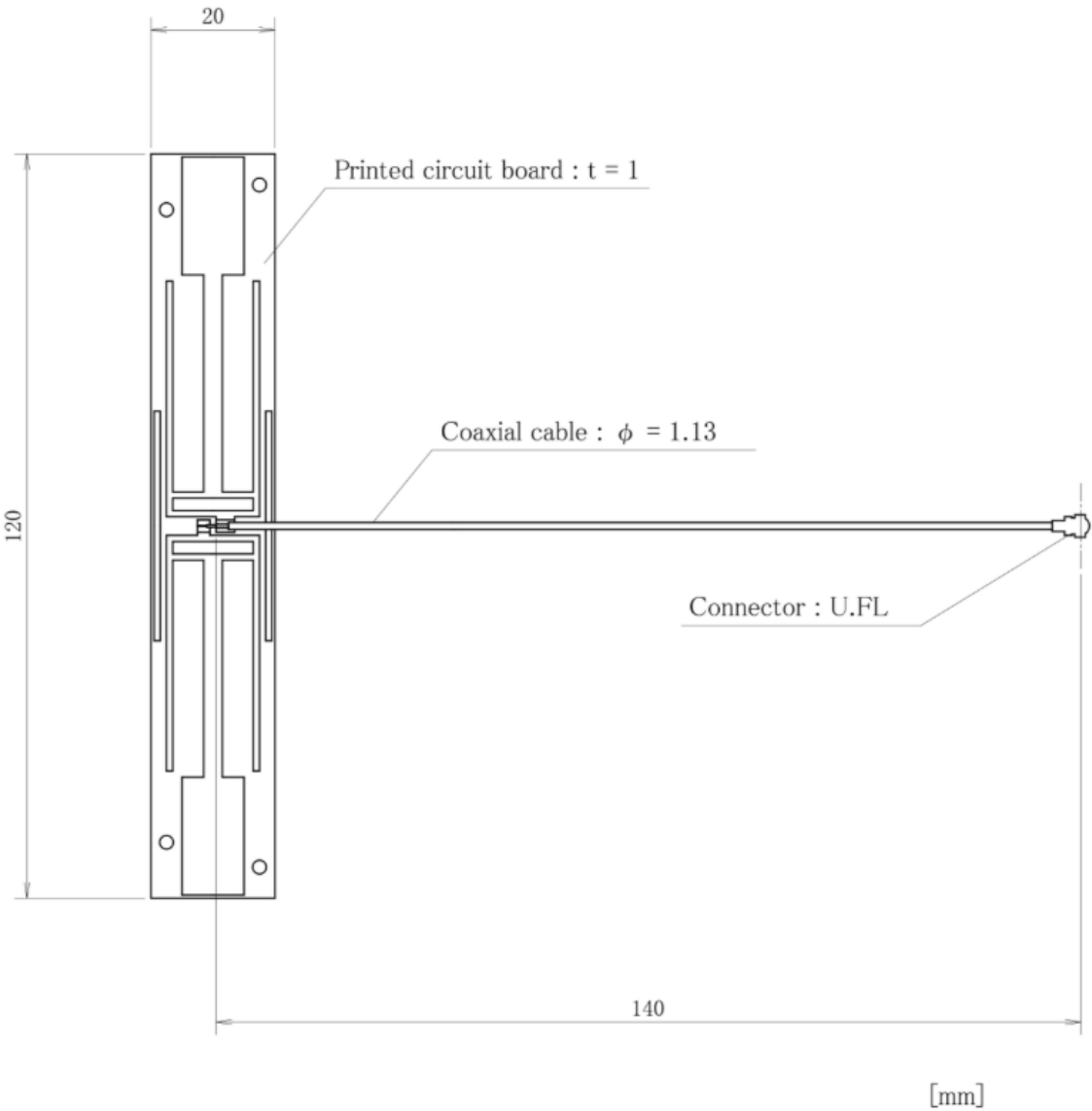
3. Radiation Patterns
(1710~2170MHz)

Horizontal polarized wave
Vertical polarized wave

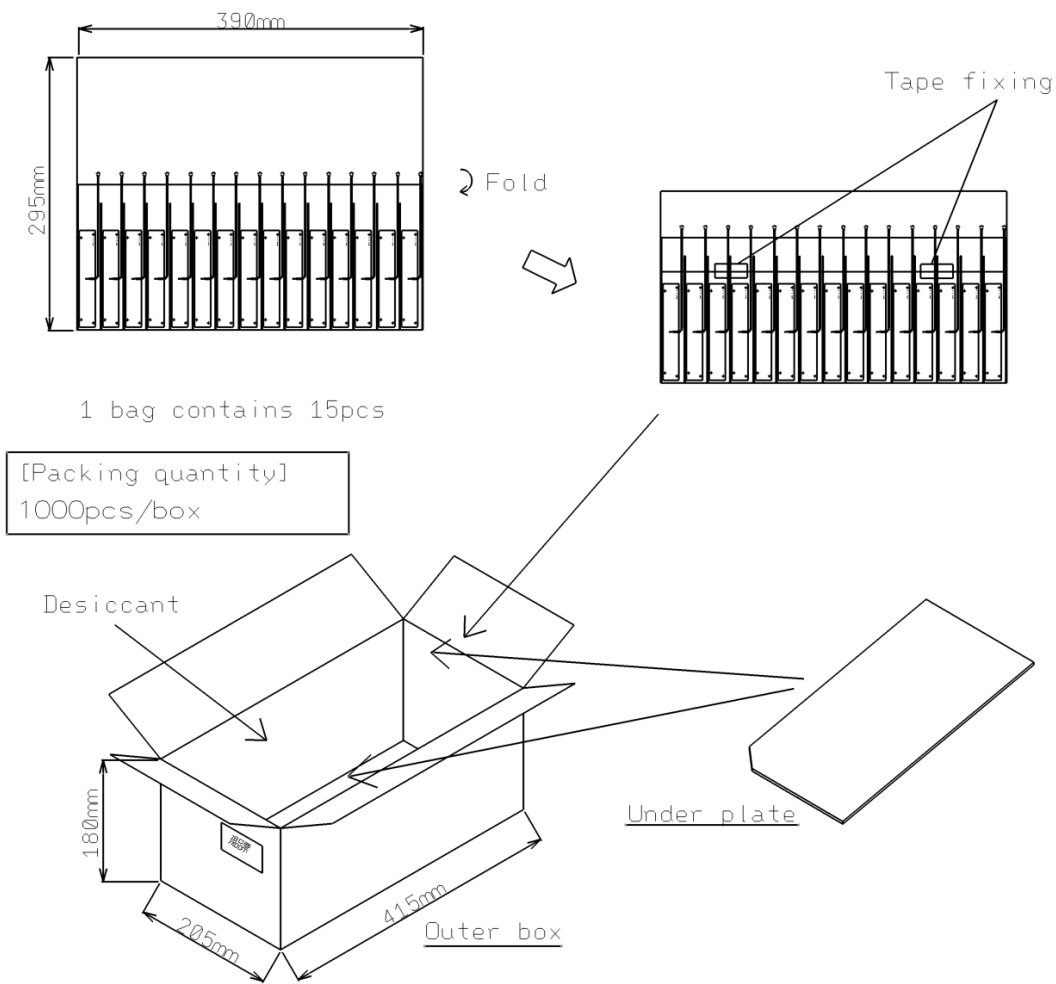
MRG = Maximum radiation gain
PAG = Pattern average gain



4. Mechanical Drawing



5. Packaging



※This basic packing unit is 1000
However, adjustments may be
made depending on the lot.

