

M1506GR Antenna Specification

Application number: T13-047-1039

Manufacturer: Staf Corporation

Location: STAF Building, 2-6-12 Shin Yokohama, Kohoku-ku Yokohama, Kanagawa Japan, 222-0033

Approval	check	charge
		

Application form
to
Technical standards conformity certification

T13-047-1039

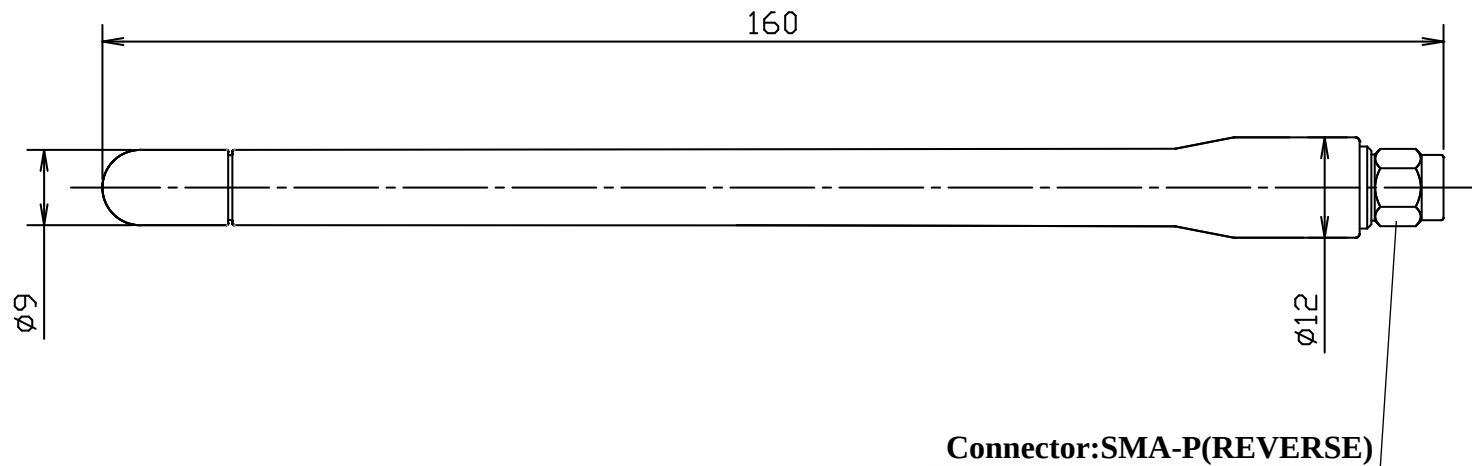
21 Feb. 2017

STAF corporation
electric design department

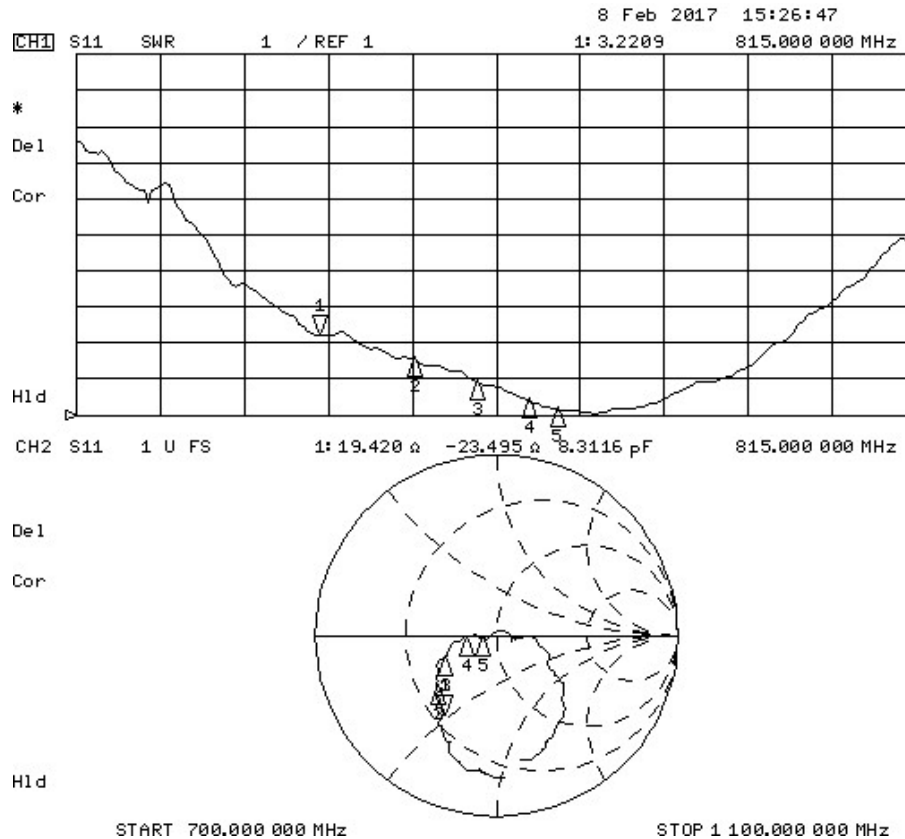
1. Specification

Item	Contents
Manufacturer	STAF corporation
Product name	Antenna
Application number	T13-047-1039
Frequency	860~928[MHz]
Antenna type	monopole antenna ($\lambda/2$)
Maximum absolute gain	3dBi or less
Impedance	50 Ω
Connector type	SMA-P (REVERSE)

2. Outside dimension drawing



3. VSWR/impedance characteristics



CH1 Markers

2: 2.5442
860.000 MHz

3: 1.9201
890.000 MHz

4: 1.4281
915.000 MHz

5: 1.1769
928.000 MHz

Frequency : [MHz]	VSWR
860	2.54
890	1.92
915	1.42
928	1.18

CH2 Markers

2: 21.916 Ω
-15.443 Ω
860.000 MHz

3: 26.766 Ω
-7.1016 Ω
890.000 MHz

4: 35.031 Ω
-712.89 m Ω
915.000 MHz

5: 42.533 Ω
-800.86 m Ω
928.000 MHz

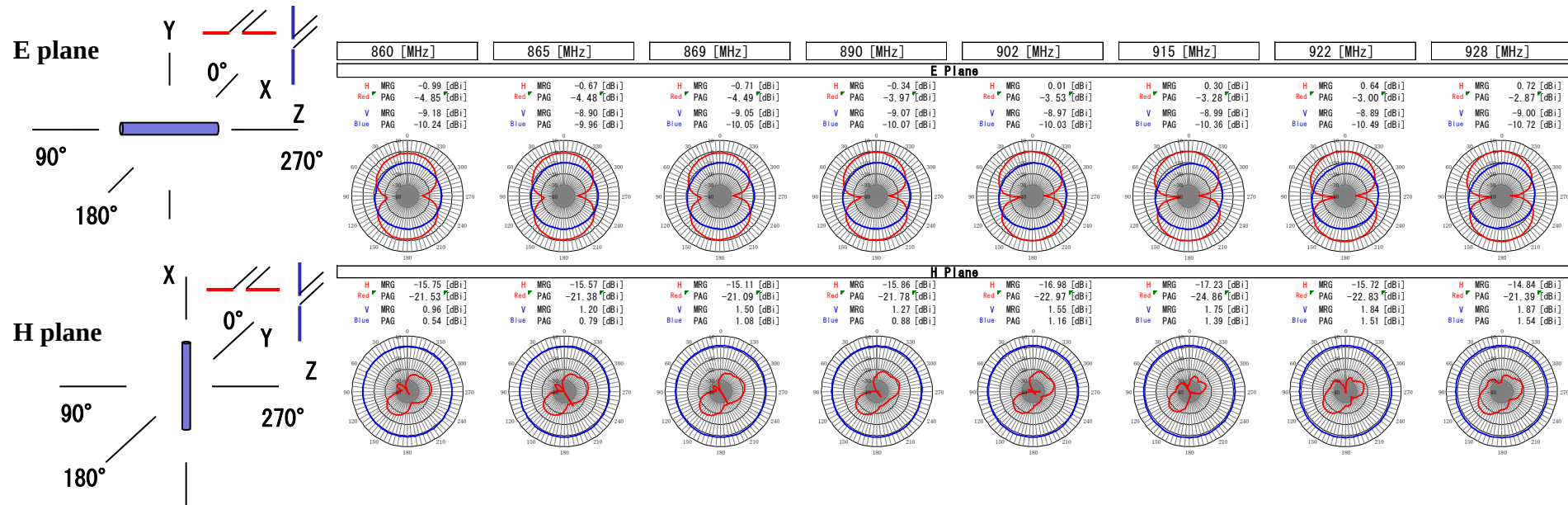
4. Gain - Radiation pattern characteristics

■ Horizontal polarized wave

■ Vertical polarized wave

MRG = Maximum radiation gain

PAG = Pattern average gain

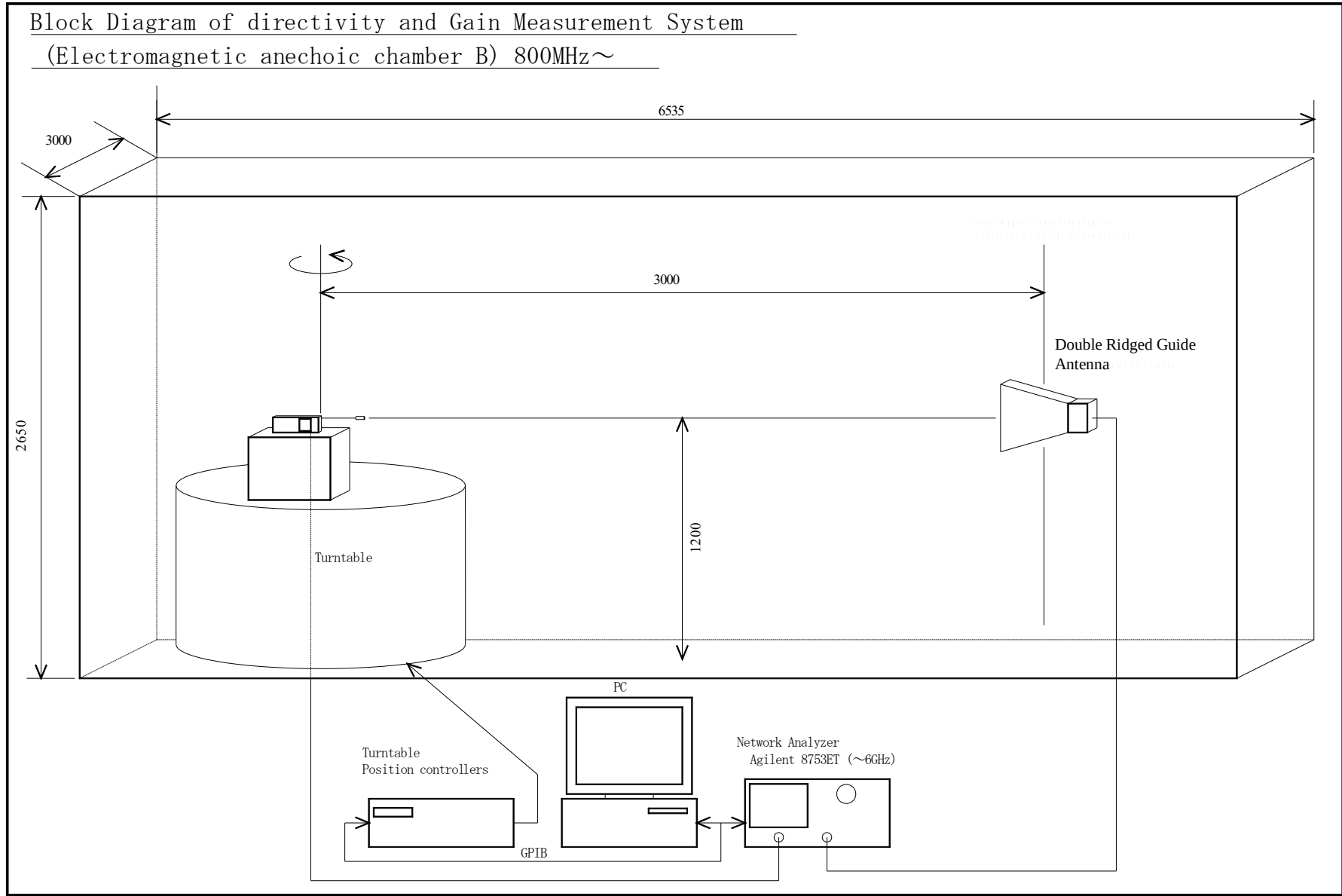


承認	検認	検認	担当
			

Staf Corporation
Antenna Measurement System

2022/11/01
Staf Corporation

Block Diagram of directivity and Gain Measurement System



Antenna Measurement Test Method

- ① Measure the reference antenna (made by Anritsu).
- ② The antenna gain of the reference antenna is used as the reference value.
- ③ Measure the object to be measured.
- ④ The antenna gain and directivity are calculated by relative comparison between the object under test and the reference antenna.

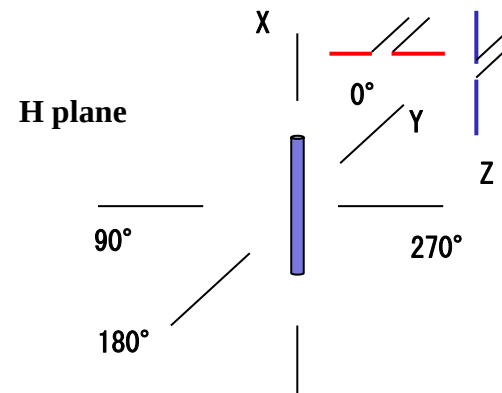
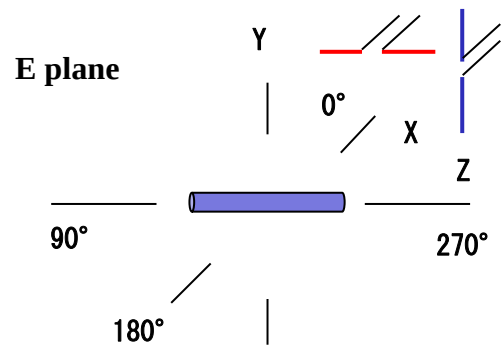
Photo of setup during measurement

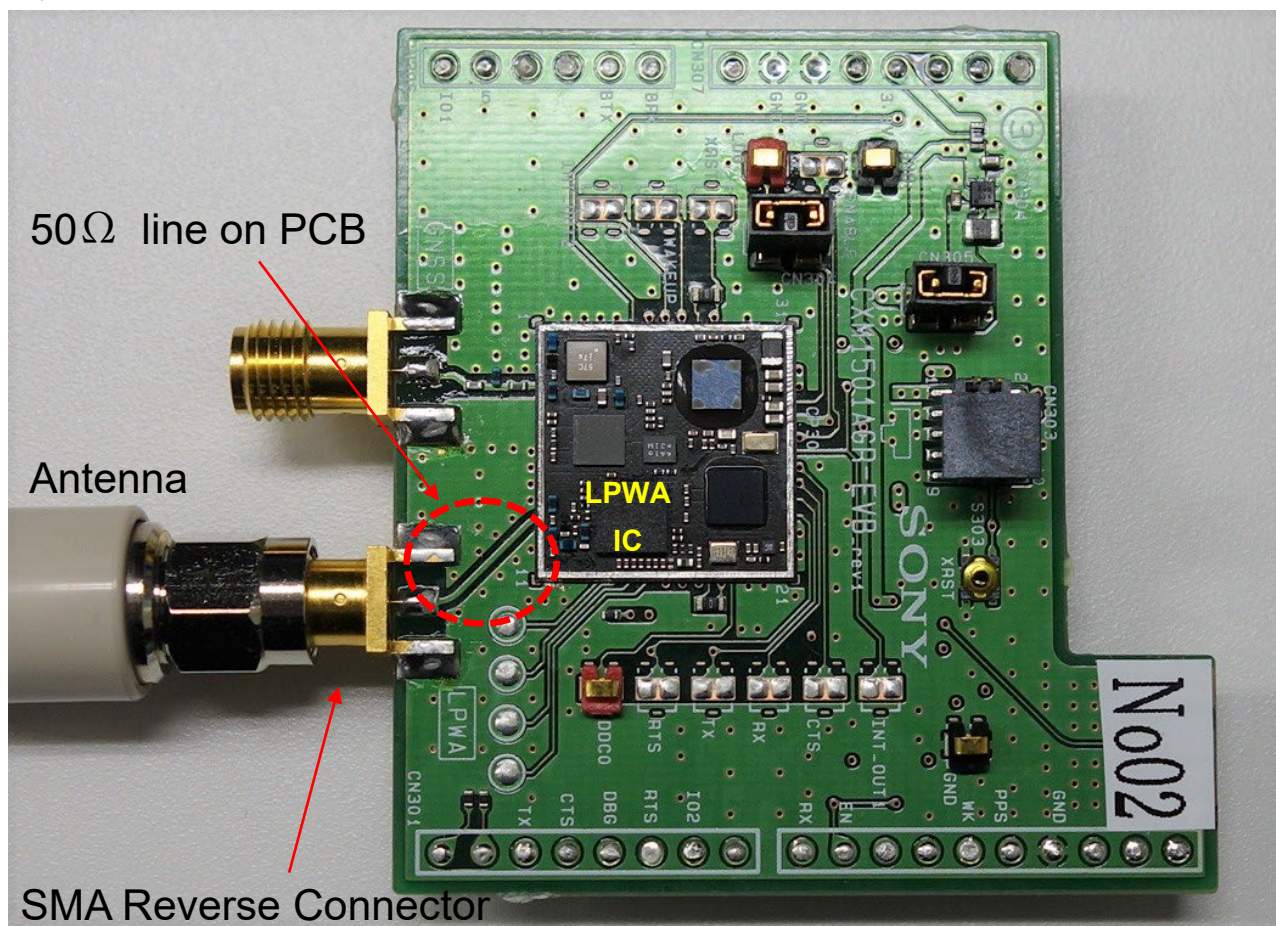
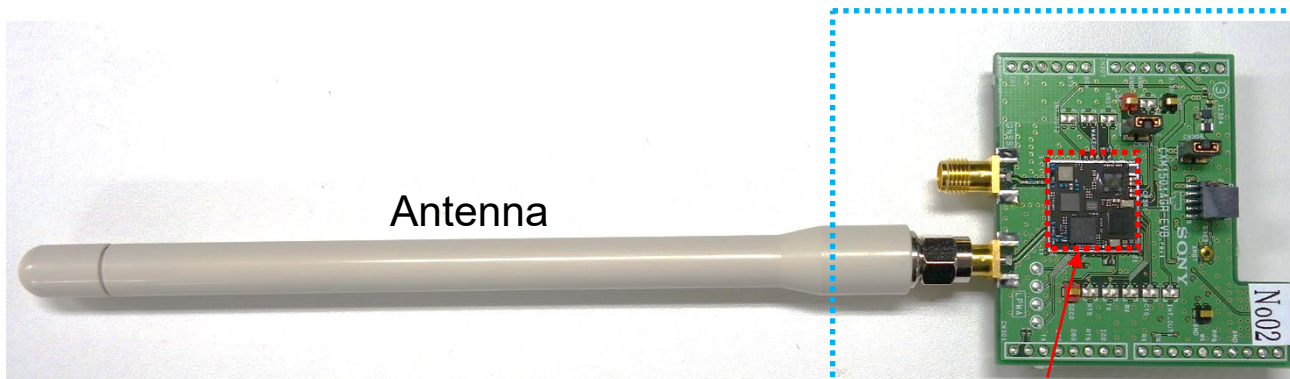


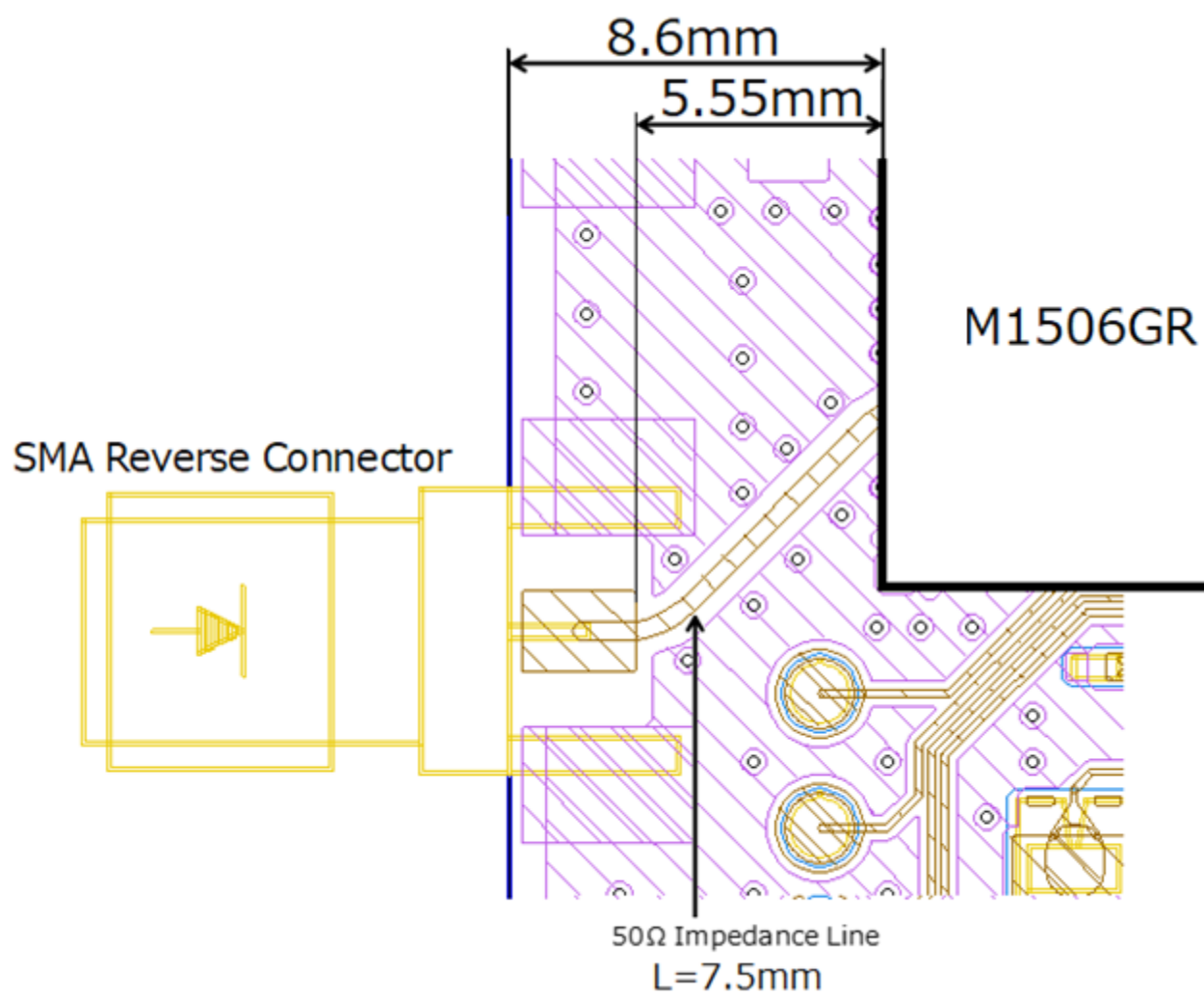
E plane



H plane







PCB Layout (from "905M_ANT" pin to antenna connector)