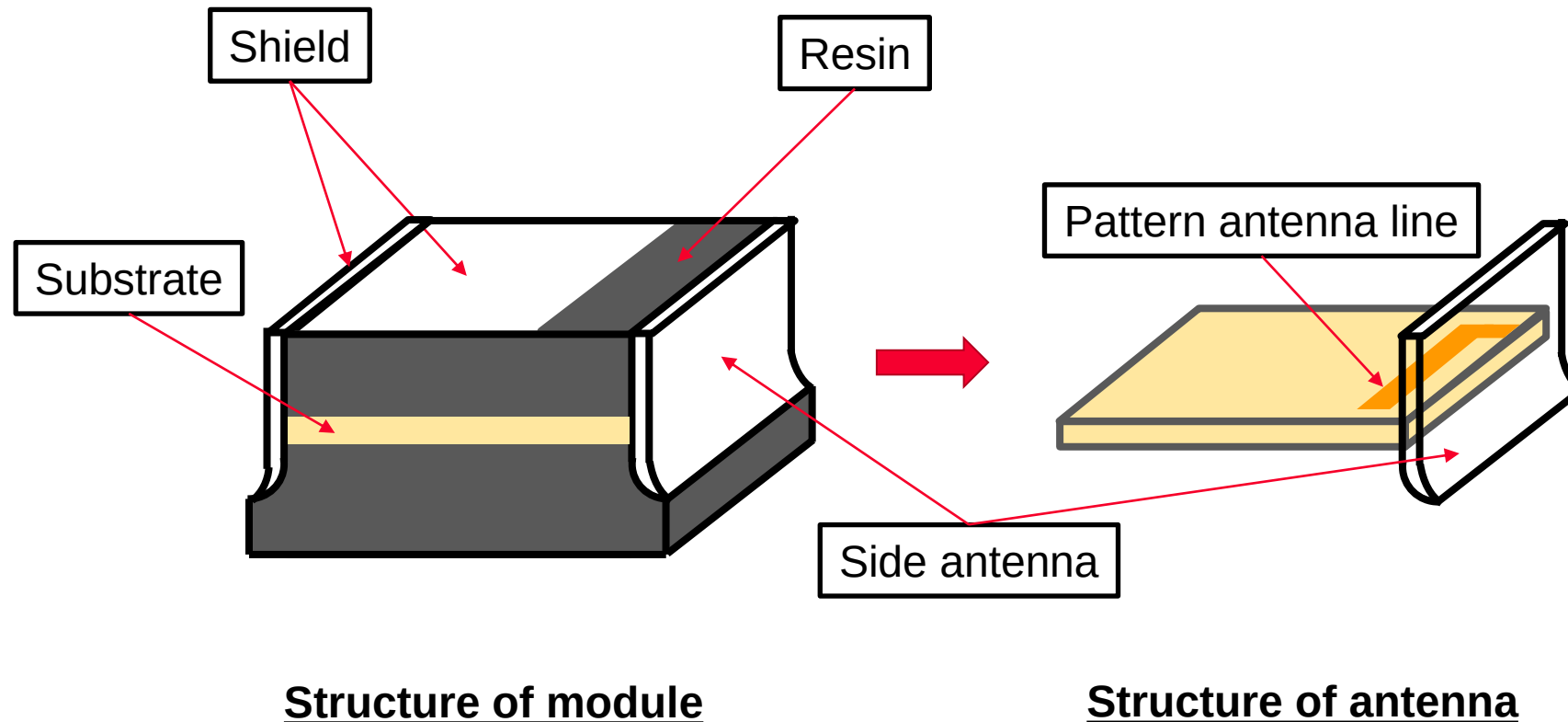


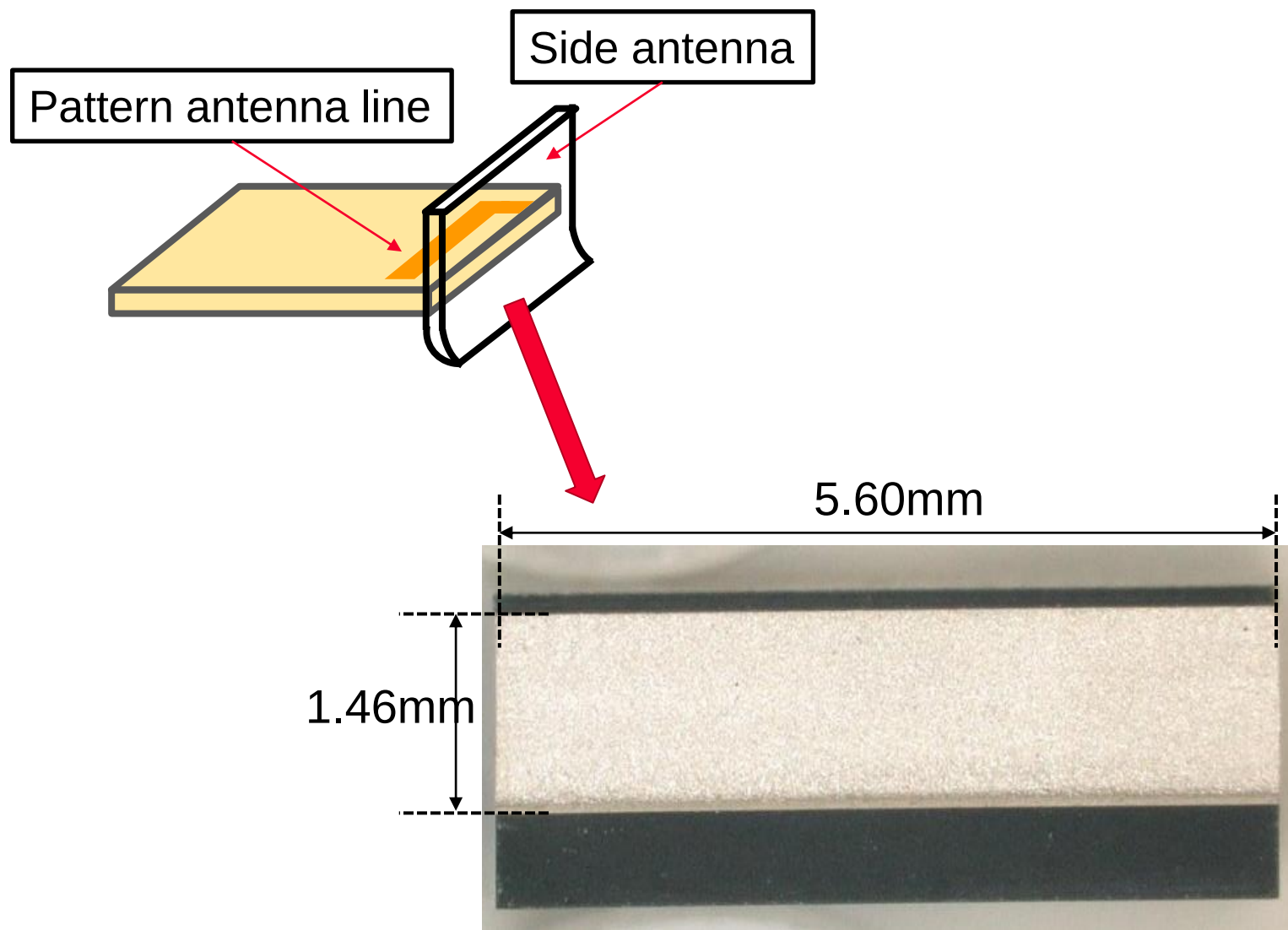
2JV (Model1/Model2) Antenna specification





The antenna consists of chips on the surface of the board, an electrode line, and a wall surface.

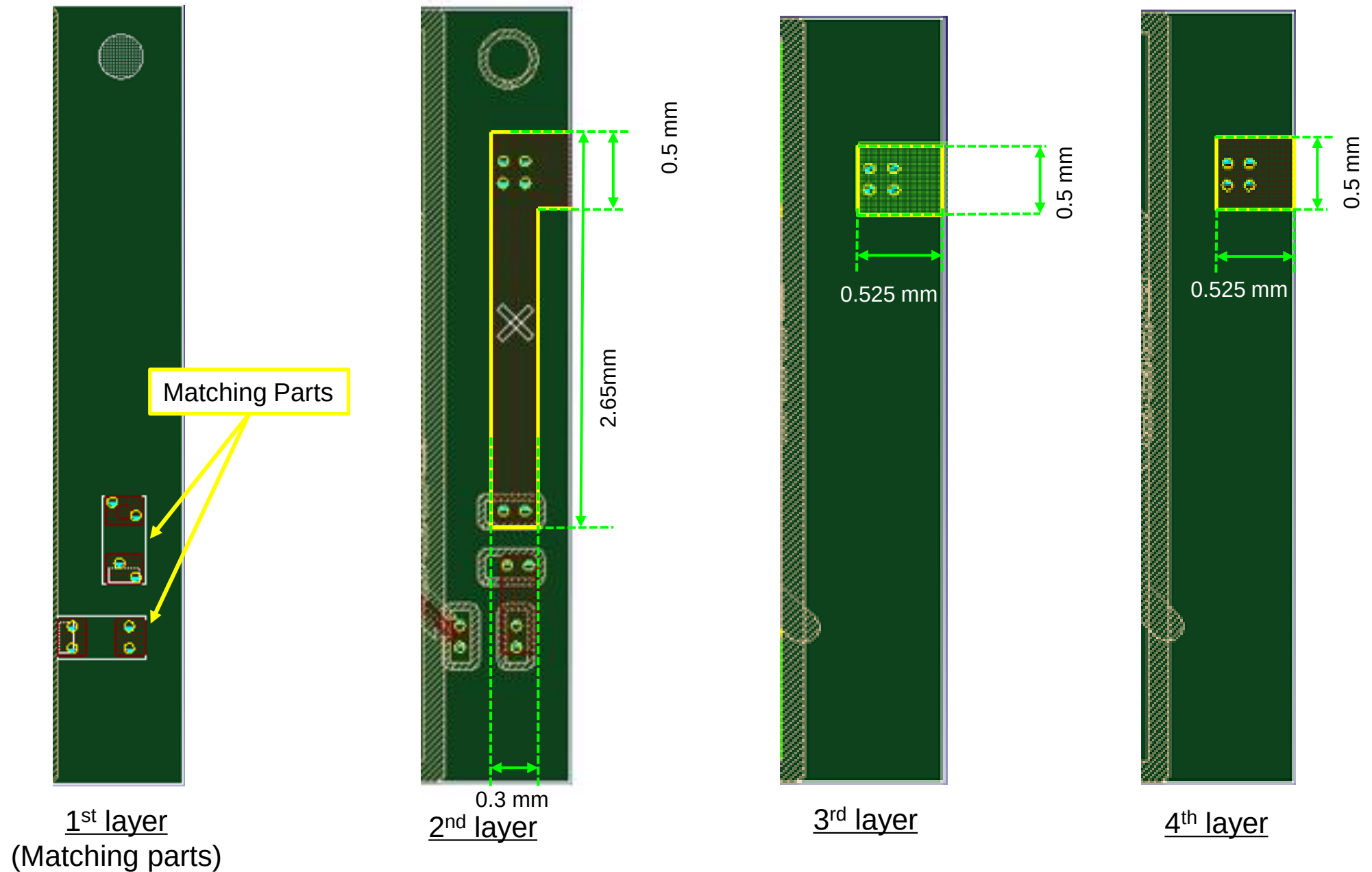
Antenna Size (Dimension)



Size of side-antenna

Confidential

Antenna Size (Dimension)



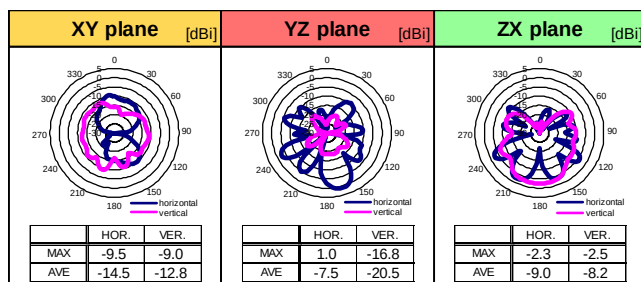
Antenna specific on EVB

Model1

- Antenna P/N : Internal Trace Antenna monopole
- Type : Pattern Antenna monopole
- Antenna Gain : + 1.0 dBi
- Frequency : 2400-2484MHz

Model1

LINEAR POLAMIZATION		XY-plane		YZ-plane		ZX-plane		Total Efficiency
		hor.	ver.	hor.	ver.	hor.	ver.	
2400 MHz	MAX.	-9.1	-9.4	0.6	-16.9	-2.6	-3.2	-7.8
	AVE.	-15.1	-14.0	-8.0	-21.6	-9.3	-8.8	
2442 MHz	MAX.	-9.5	-9.0	1.0	-16.8	-2.3	-2.5	-7.3
	AVE.	-14.5	-12.8	-7.5	-20.5	-9.0	-8.2	
2484 MHz	MAX.	-10.5	-10.5	-0.4	-17.4	-3.5	-3.4	-8.4
	AVE.	-15.7	-13.4	-8.8	-21.1	-10.2	-9.2	

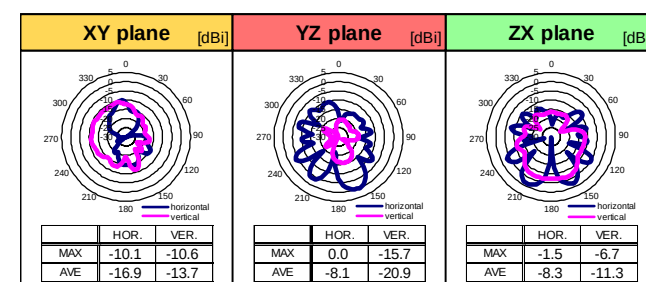


Model2

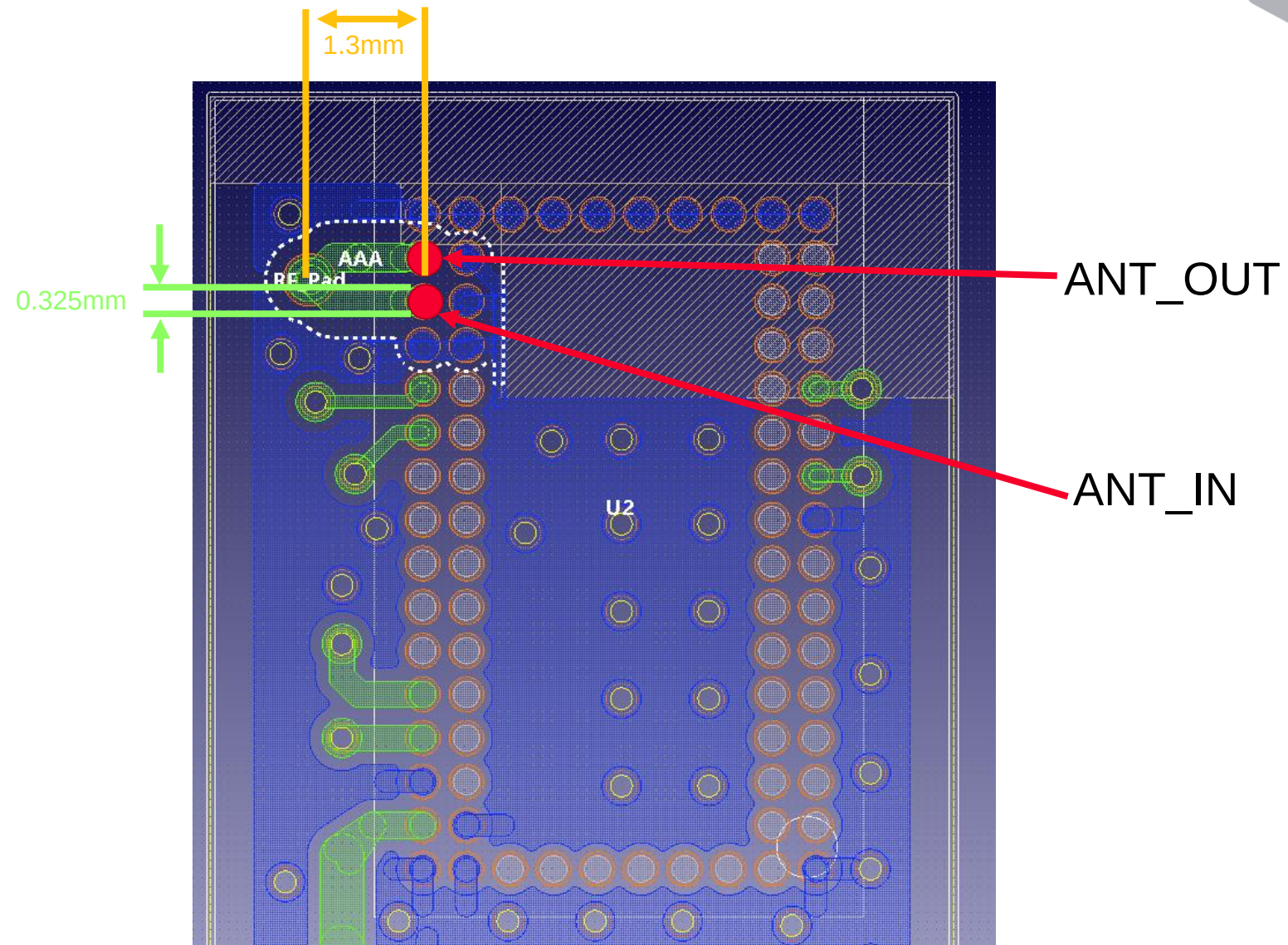
- Antenna P/N : Internal Trace Antenna monopole
- Type : Pattern Antenna monopole
- Antenna Gain : + 0 dBi
- Frequency : 2400-2484MHz

Model2

LINEAR POLAMIZATION		XY-plane		YZ-plane		ZX-plane		Total Efficiency
		hor.	ver.	hor.	ver.	hor.	ver.	
2400 MHz	MAX.	-11.4	-12.4	-1.2	-16.8	-2.8	-8.0	-9.1
	AVE.	-18.0	-15.2	-9.4	-22.9	-9.6	-12.5	
2442 MHz	MAX.	-10.1	-10.6	0.0	-15.7	-1.5	-6.7	-7.9
	AVE.	-16.9	-13.7	-8.1	-20.9	-8.3	-11.3	
2484 MHz	MAX.	-12.2	-11.2	-0.7	-18.1	-2.1	-7.1	-8.2
	AVE.	-16.8	-14.6	-8.7	-23.4	-8.6	-11.7	

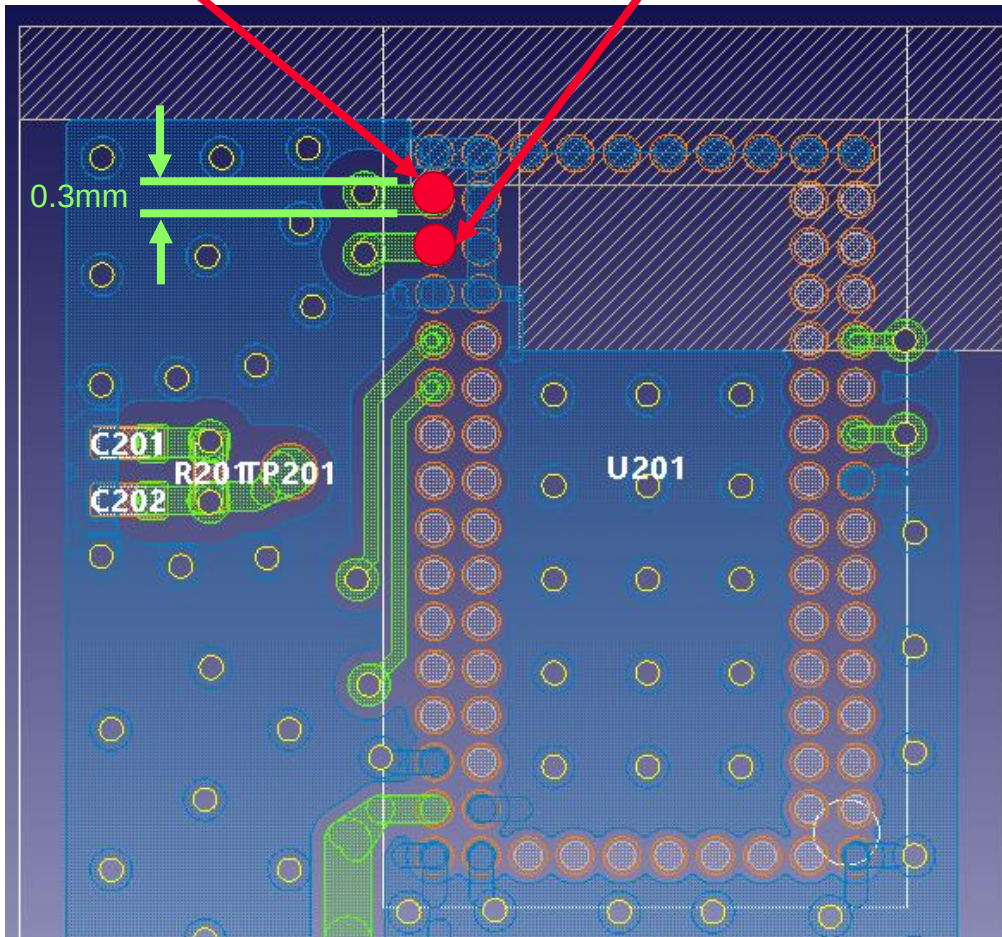


EVB for Model1

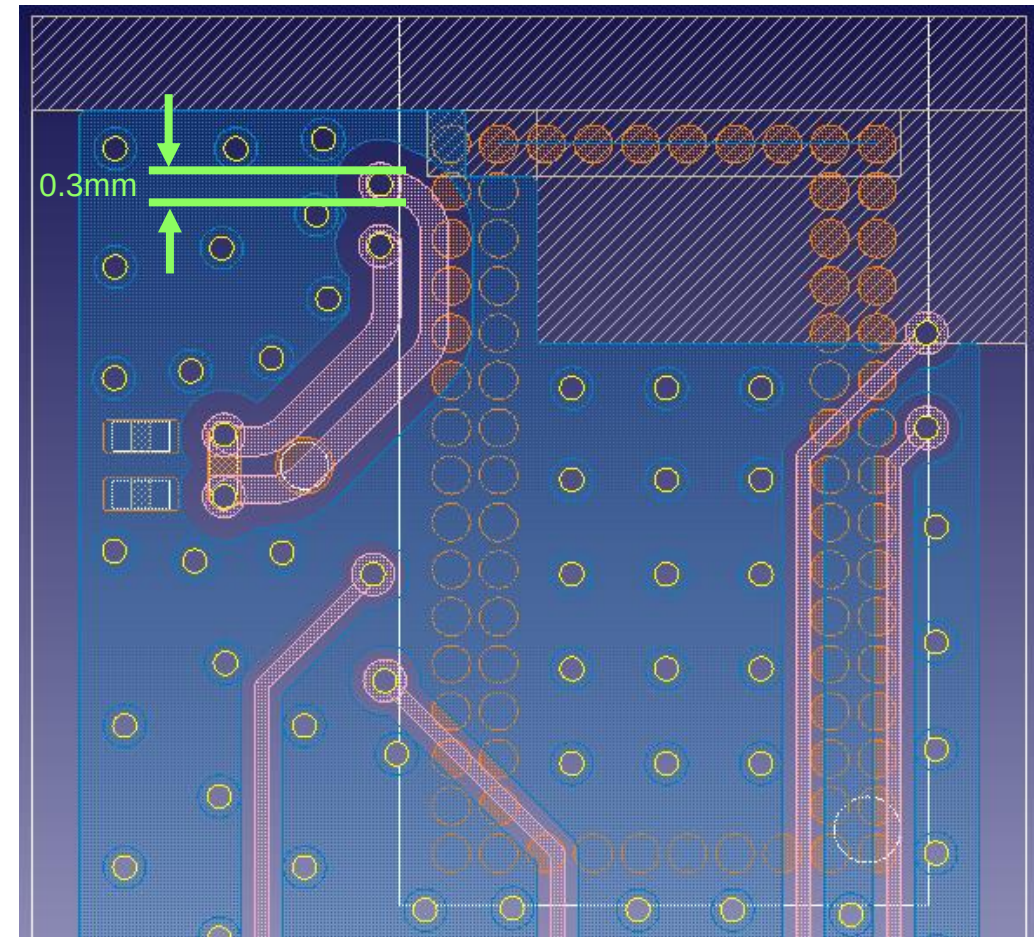


EVB for Model2

ANT_OUT 表層 ANT_IN



裏層



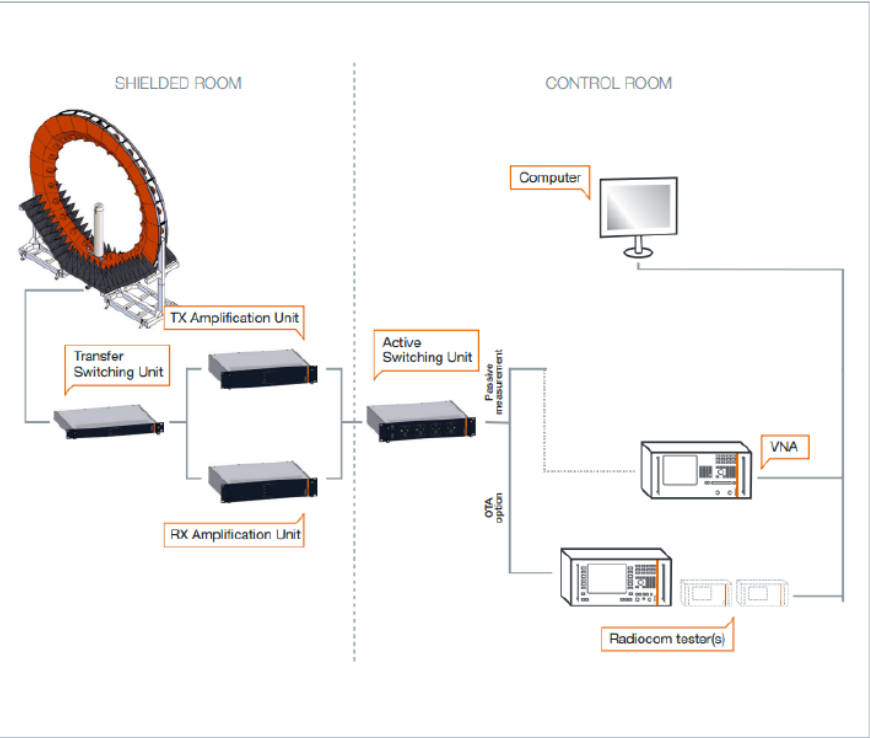
Measurement Conditions for Antenna

Kanazawa Murata Mfg. Co., Ltd
Antenna Technical Support Section



- Test method for antenna gain measurement:
Standard antenna method (comparative method)
 - * Comparing a measured antenna to a standard antenna with a known gain factor
- Equipment used for antenna gain measurement (model name, serial number, calibration date, etc.);
 - Measurement system
Microwave Vision Group (former SATIMO) SG32 (details next page)
 - Equipment
P9374A (MY57213280)
E4438C (MY45090139)
E4428C (MY45280466)
 - Calibration date
June, 2023
 - Antenna gain measurement date / Measurement person
Model1 Feb 19, 2024 / Rie Ichimura
Model2 Feb 26, 2024 / Rie Ichimura

Details of SG32



Anechoic chamber size		Approximately 3.5m x 3.5m x 3m (H)
Frequency band		650~18000MHz
Measurement time	Elevation 1 cut	Real time
	Global surface measurement	< Approx. 120 seconds (when measuring 40 frequencies)
Measurement uncertainty	Peak gain	< +/-0.9dB (0.65~1.0GHz)
		< +/-0.8dB (1.0~18.0GHz)
	Low gain	< +/-3.0dB (0.65~1.0GHz)
		< +/-2.4dB (1.0~6.0GHz)
		< +/-2.2dB (6.0~18.0GHz)
Dynamic range		>70dB(0.65~6.0GHz)
		>68-42dB(6.0~18.0GHz)
Cross Polar Isolation		> 45dB

DUT size	Sampling cycle	0.65 GHz	1.0 GHz	2.5 GHz	6 GHz	10 GHz	18 GHz
	x1	75 cm	84 cm	65 cm	27 cm	18 cm	10 cm
	X3	75 cm	84 cm	84 cm	82 cm	50 cm	28 cm
	X5	75 cm	84 cm	84 cm	84 cm	82 cm	45 cm
	x10	75 cm	84 cm	84 cm	84 cm	84 cm	84 cm

Peak gain variation is secured within ±0.90 dB by system calibration.

[2JV]

