

2DV Antenna specification



1. Antenna perfomance



2DV

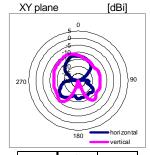
Antenna P/N : Internal Trace Antenna monopole

Type : Pattern Antenna monopole

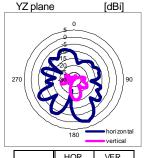
Antenna Gain : + 1.0 dBi

• Frequency : 2400-2484MHz

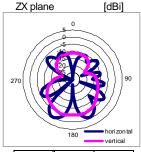
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LINEAR		XY-plane		YZ-plane		ZX-plane		Total
POLARIZATION		hor.	ver.	hor.	ver.	hor.	ver.	Efficiency
2400 MHz	MAX.	-14.1	-12.7	-1.8	-19.6	-2.8	-7.8	
	AVE.	-18.6	-16.4	-9.8	-26.1	-10.4	-11.7	-9.6
2442 MHz	MAX.	-12.2	-10.5	0.3	-16.7	-0.7	-5.4	
	AVE.	-16.9	-14.0	-7.6	-23.6	-8.2	-9.8	-7.5
2484 MHz	MAX.	-12.2	-10.2	1.0	-15.5	-0.1	-4.7	
	AVE.	-16.8	-13.4	-7.1	-22.7	-7.5	-9.3	-6.9



	HOR.	VER.
MAX	-12.2	-10.2
AVE	-16.8	-13.4



	HOR.	VER.
MAX	1.0	-15.5
AVE	-7.1	-22.7



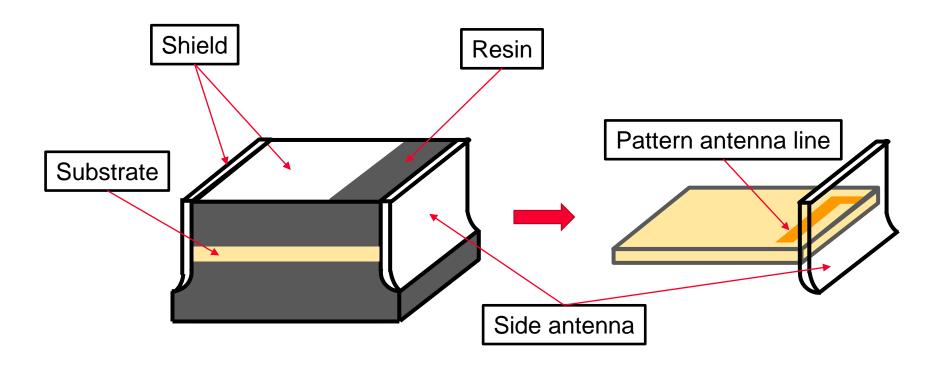
[4D:]

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	HOR.	VER.		
MAX	-0.1	-4.7		
AVE	-7.5	-9.3		

2. Antenna structure





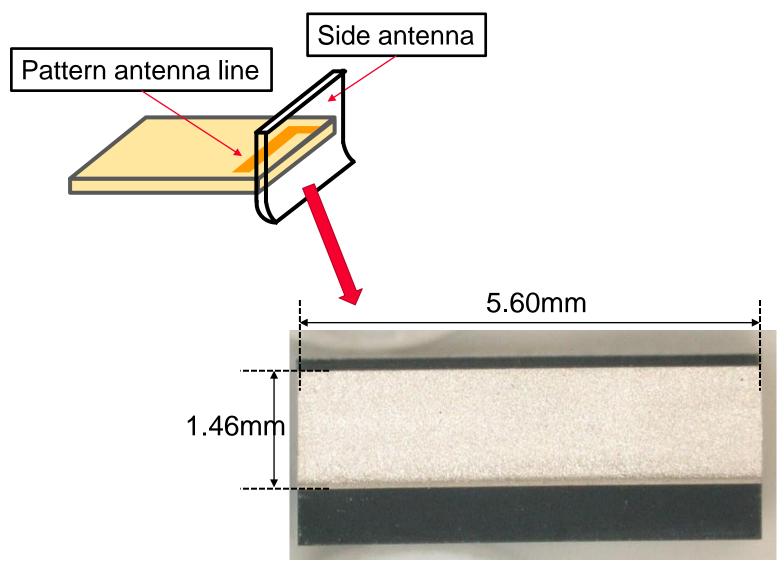
Structure of module

Structure of antenna

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

3. Antenna Size (Dimension)

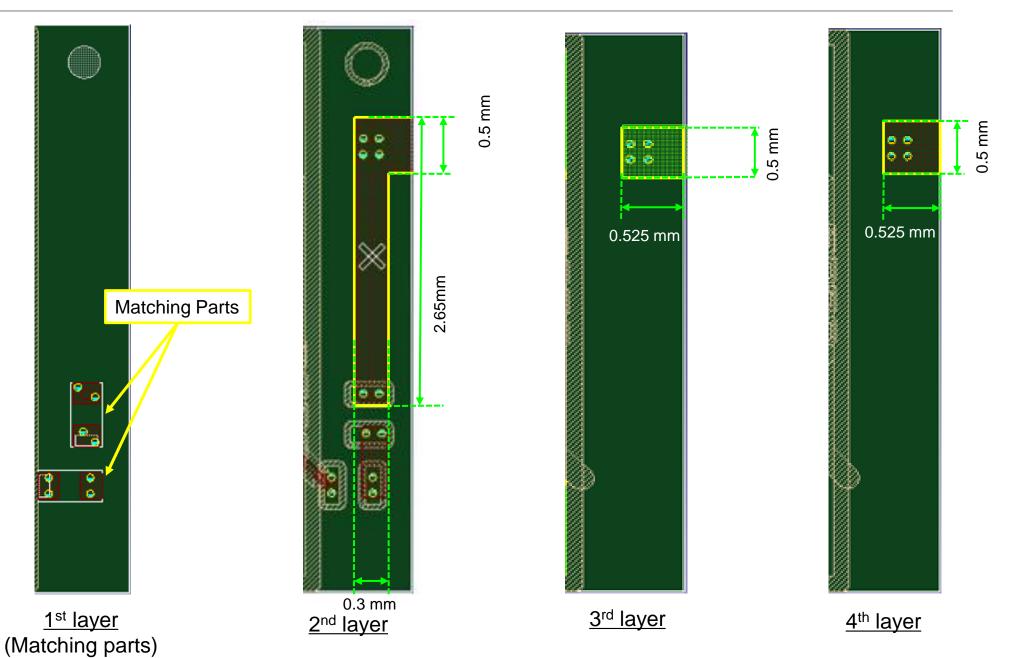




Size of side-antenna

4. Antenna Size (Dimension)







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Measurement Conditions for Antenna

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



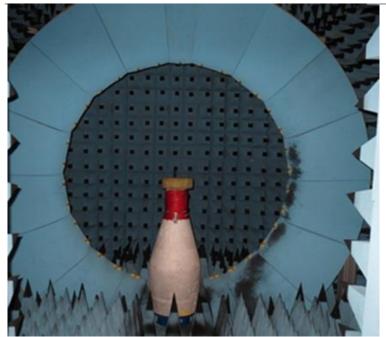
Test method for antenna gain measurement



- 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
 PAC (MW 000021H-0068)
 E4438C (MY45090139)
 E4428C (MY45280466) Calibration date
 October 25, 2022
 - Antenna gain measurement date / Measurement person October 28, 2022 / Rie Ichimura

Details of SG32

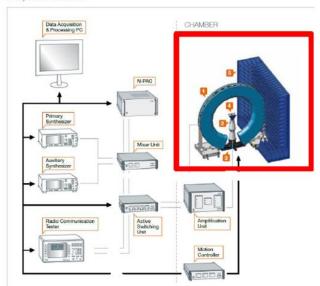






Anechoic chamber size			Approximately 3.5m x 3.5m x 3m (H)				
Frequency hand			800~6000MHz (18~40GHz compatible with Option)				
Measurement time		Elevation 1 cut		Real time			
		Olobai sariace		< Approx. 20 seconds (when measuring 10 frequencies)			
Measurement uncertainty		Peak gain		< +/-0.75dB (1.0~6.0GHz)			
				< +/-1.0dB (0.8~1.0GHz)			
		Low gain		< +/-2dB (@-20dB from peak)			
Dynamic range			70dB				
Cross Polar Isolation			> 45dB				
	0.8 GHz		1.8 GHz		2.5 GHz	6 GHz	
DUT size	75 c	5 cm 75			65 cm	30 cm	





Peak gain variation is secured within ± 0.75 dB by system calibration.

[2DV]



