

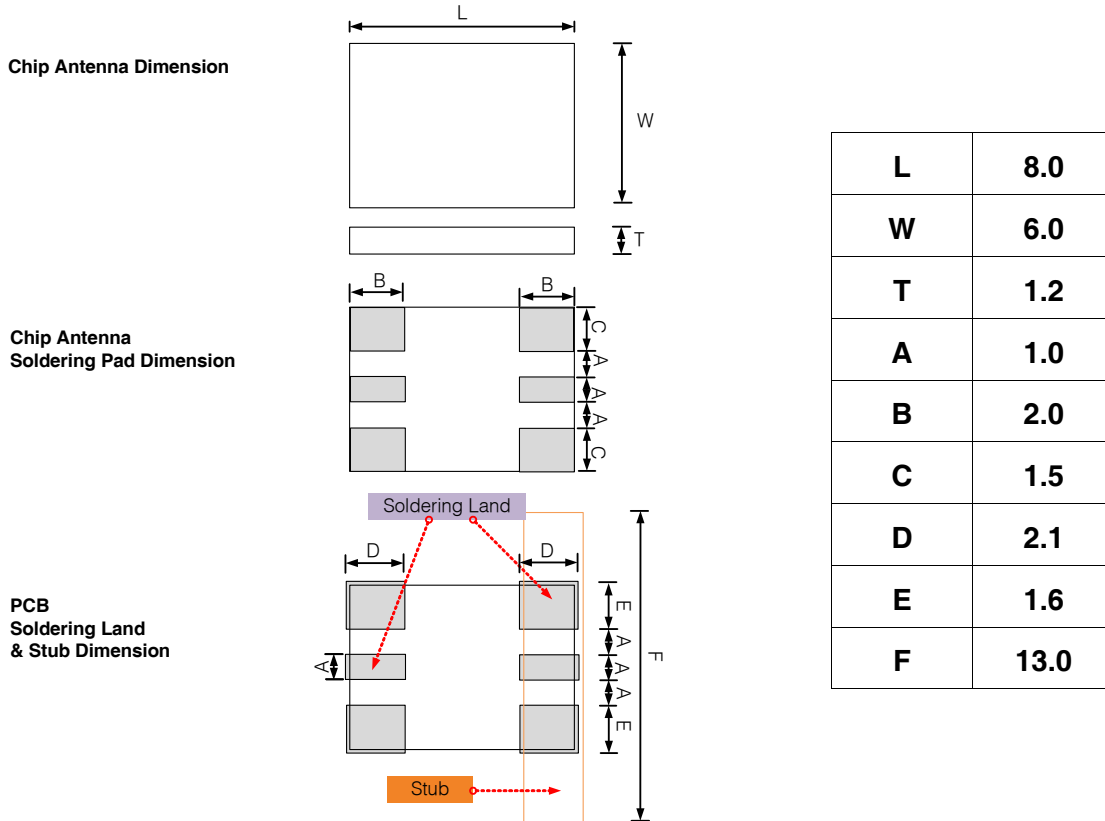
# Dielectric Chip Antenna



## P/N : ACS5200HFAUWB

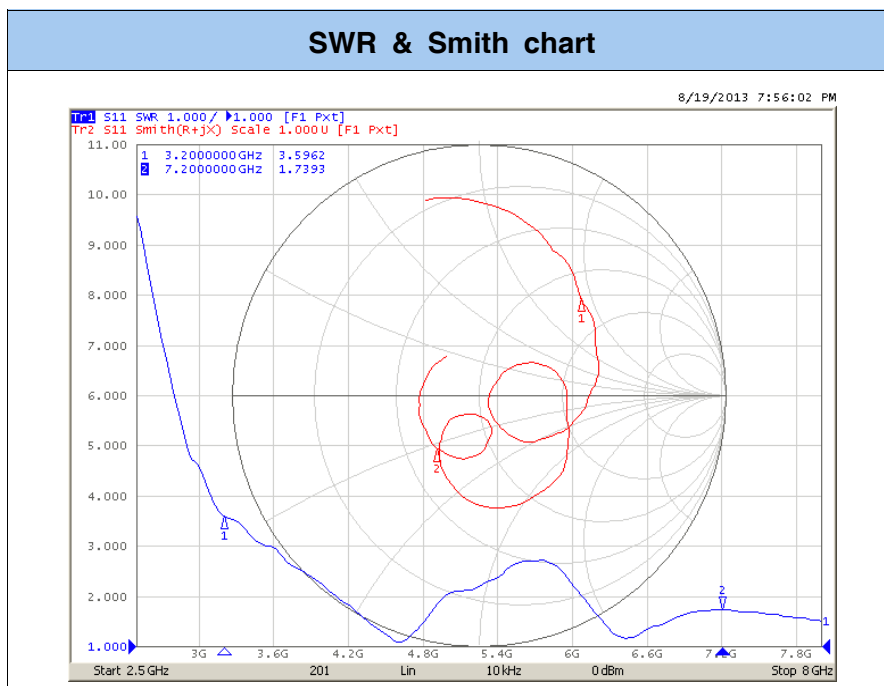
This specification covers the dielectric chip antenna ACS5200HFAUWB used in 3200~7200MHz Wireless Communication.

## MECHANICAL DIMENSION (unit : mm, tolerance : ± 0.1)



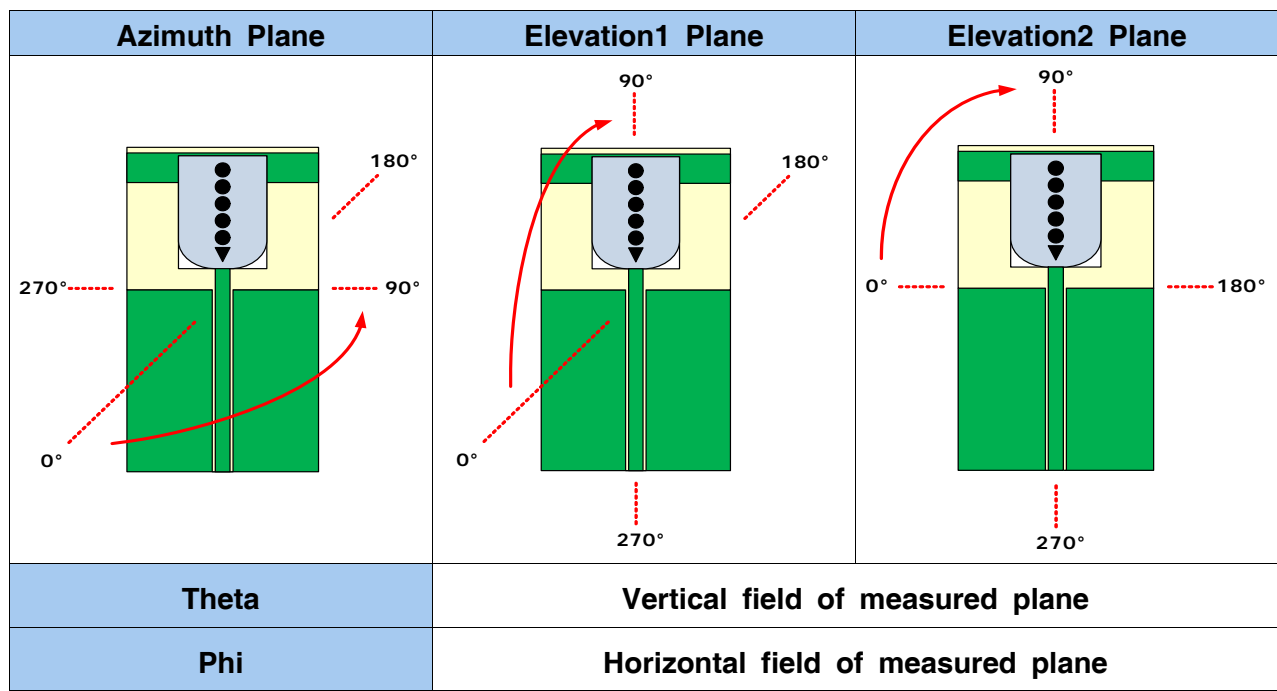
## ELECTRICAL CHARACTERISTICS

SWR[**MAX**] 5.0:1(Typ 4.0:1)

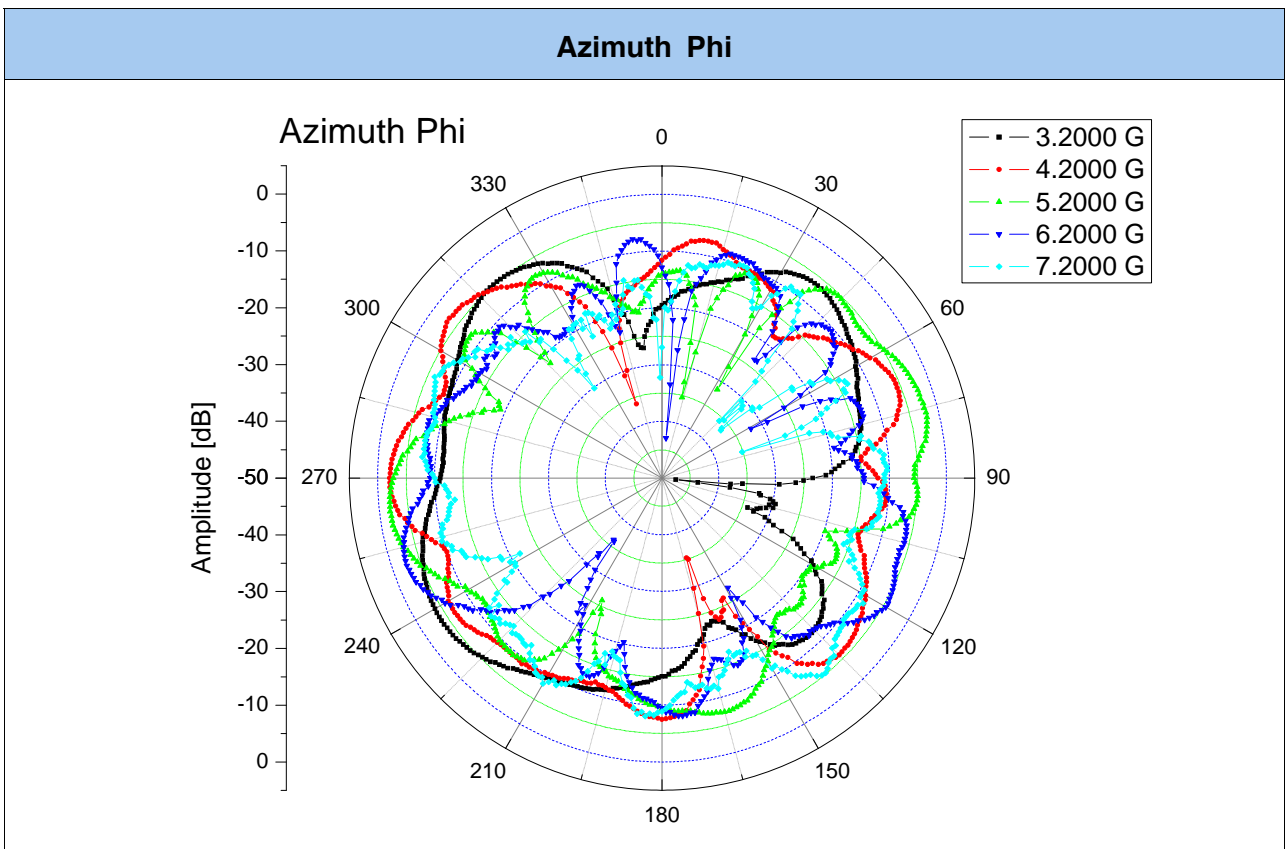
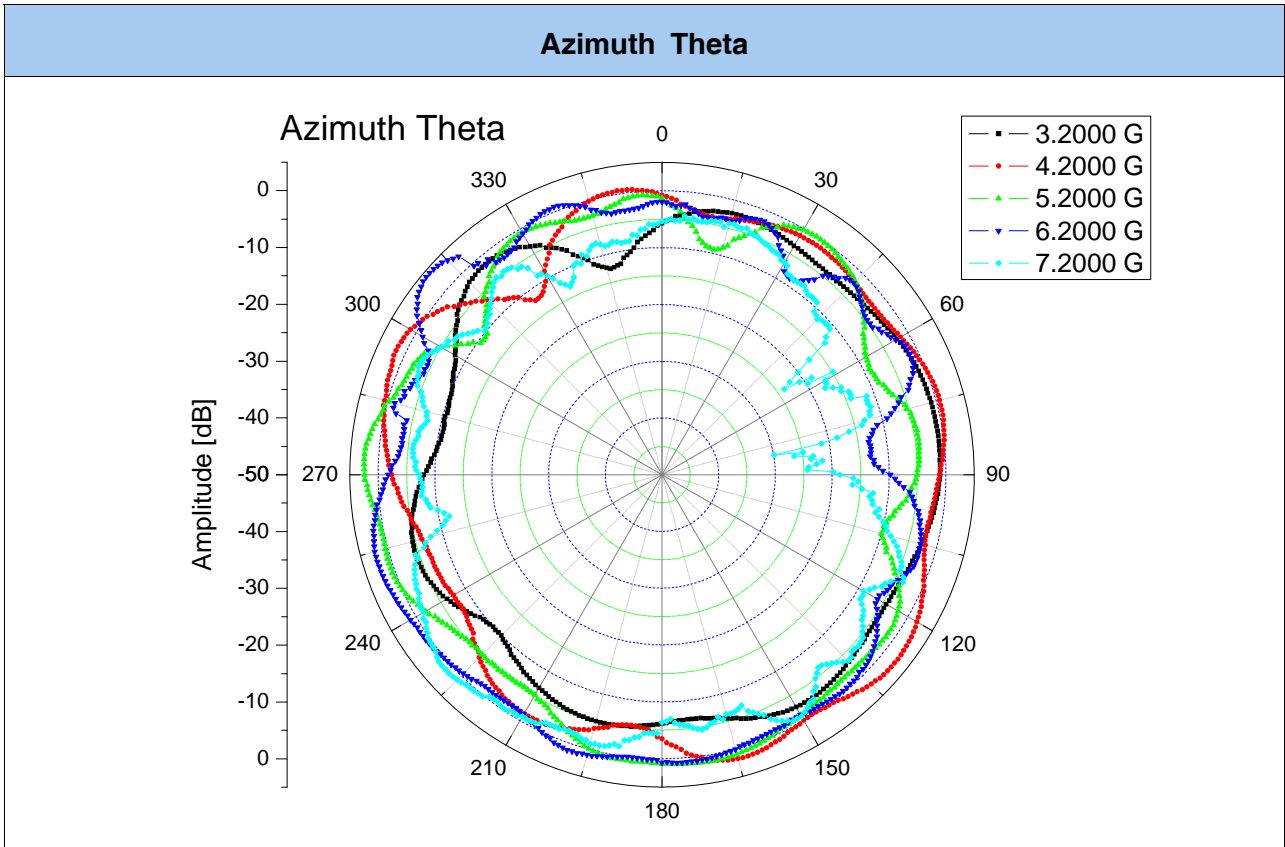


## ELECTRICAL CHARACTERISTICS (2D)

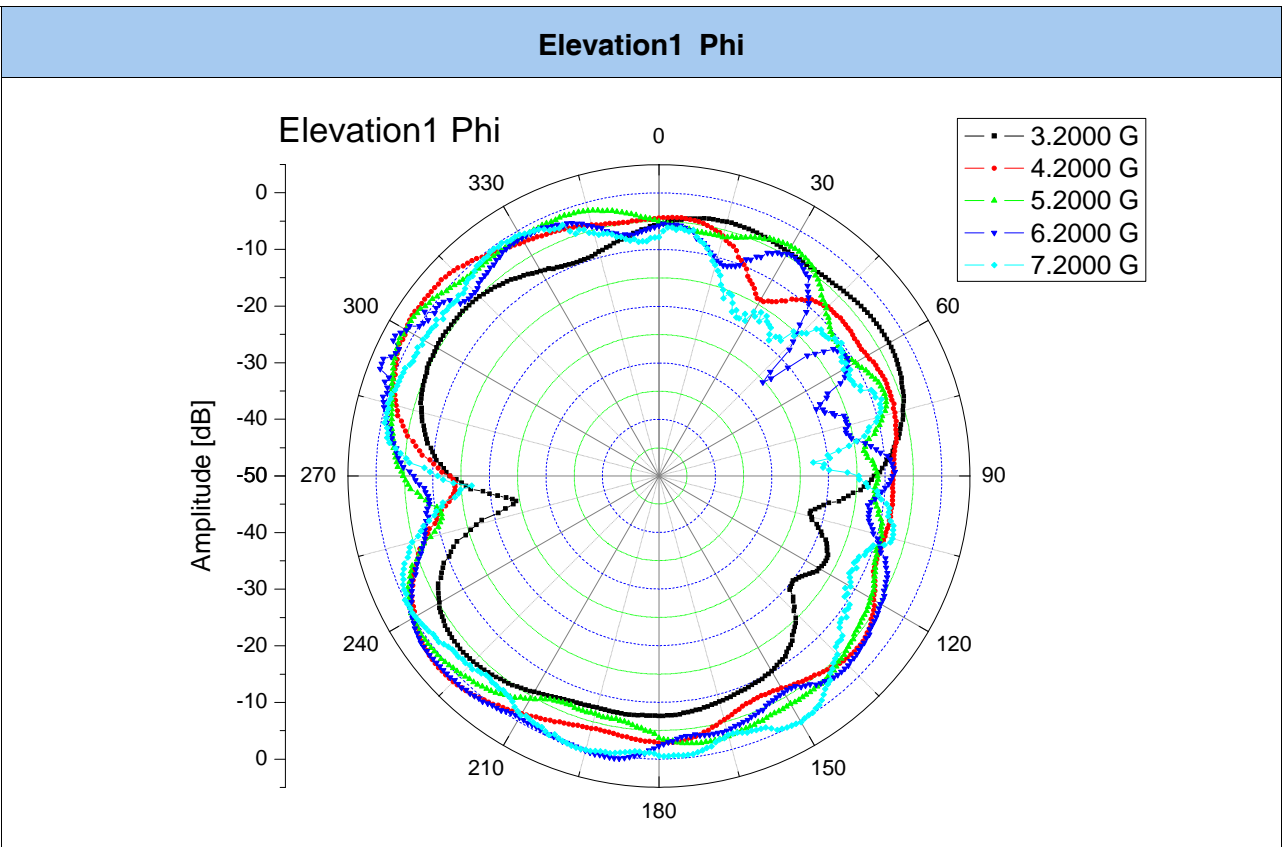
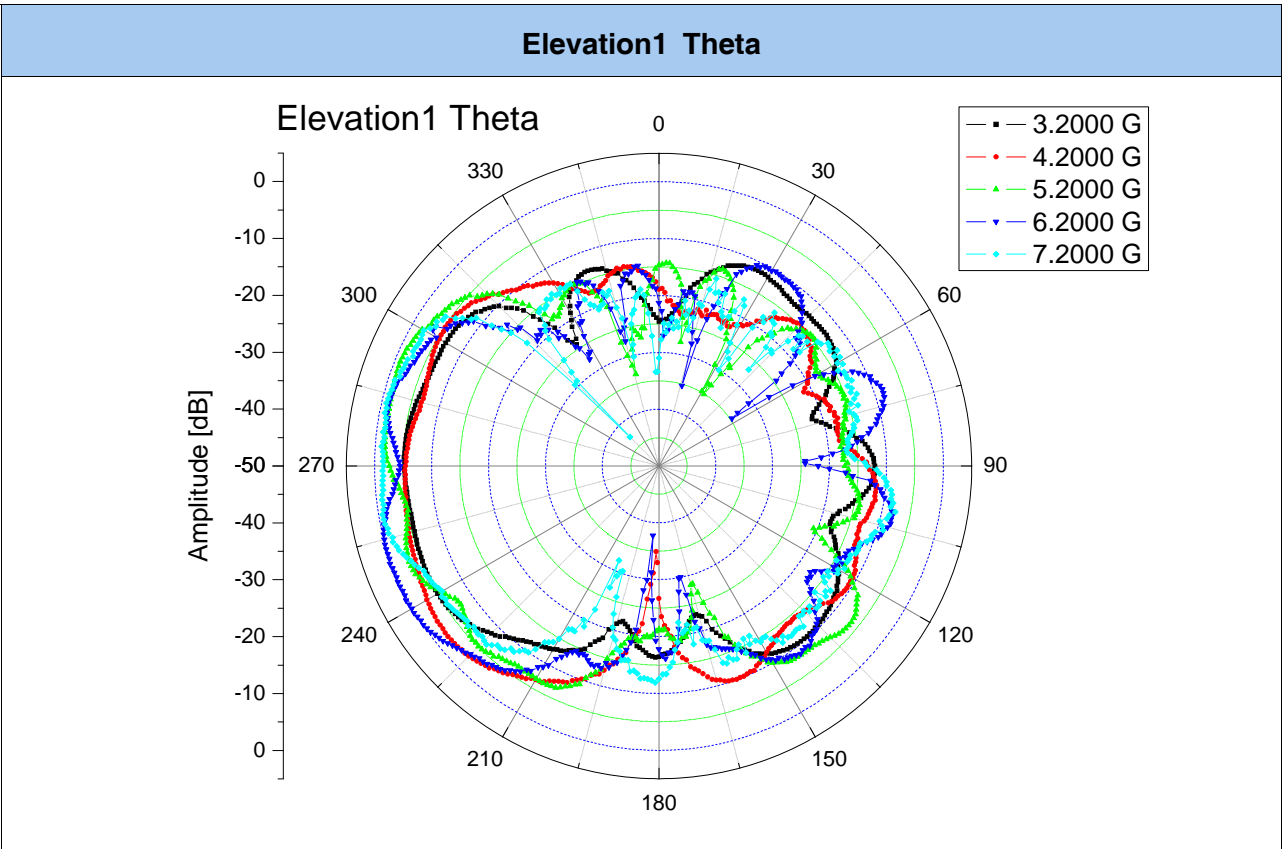
2D Measurement								
Frequency [MHz]			3200	4200	5200	6200	7200	
Gain	Azimuth	Theta	Peak	-0.88	2.73	2.51	4.16	1.31
			Average	-4.26	-1.22	-1.88	-1.10	-4.82
			Efficiency	37.50	75.50	64.86	77.62	32.96
		Phi	Peak	-3.84	-2.16	-1.91	-2.61	-5.20
			Average	-9.61	-8.20	-8.16	-9.96	-11.63
			Efficiency	10.96	15.13	15.27	10.09	6.87
	Elevation 1	Theta	Peak	-5.05	-2.32	-1.03	0.30	-0.68
			Average	-10.36	-8.84	-7.90	-6.99	-8.06
			Efficiency	9.20	13.06	16.21	19.99	15.63
		Phi	Peak	-2.99	1.98	1.81	2.92	0.20
			Average	-6.65	-3.30	-3.37	-3.04	-3.71
			Efficiency	21.62	46.77	46.02	49.65	42.55
	Elevation 2	Theta	Peak	-5.83	-3.38	-2.05	0.26	-3.56
			Average	-10.76	-9.16	-7.01	-5.74	-8.27
			Efficiency	8.39	12.13	19.90	26.66	14.89
		Phi	Peak	-0.52	2.23	1.52	1.39	1.12
			Average	-5.23	-3.30	-3.66	-3.90	-4.74
			Efficiency	29.99	46.77	43.05	40.73	33.57



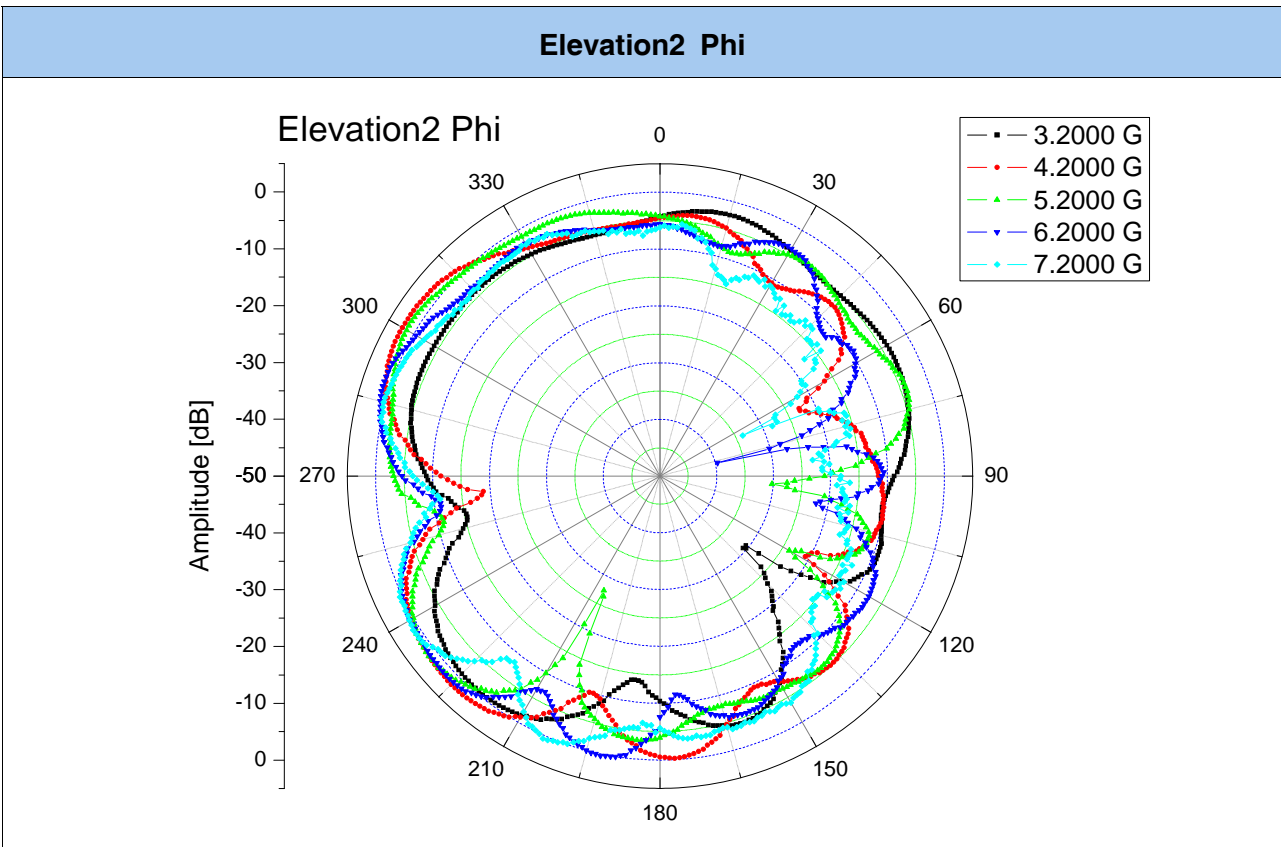
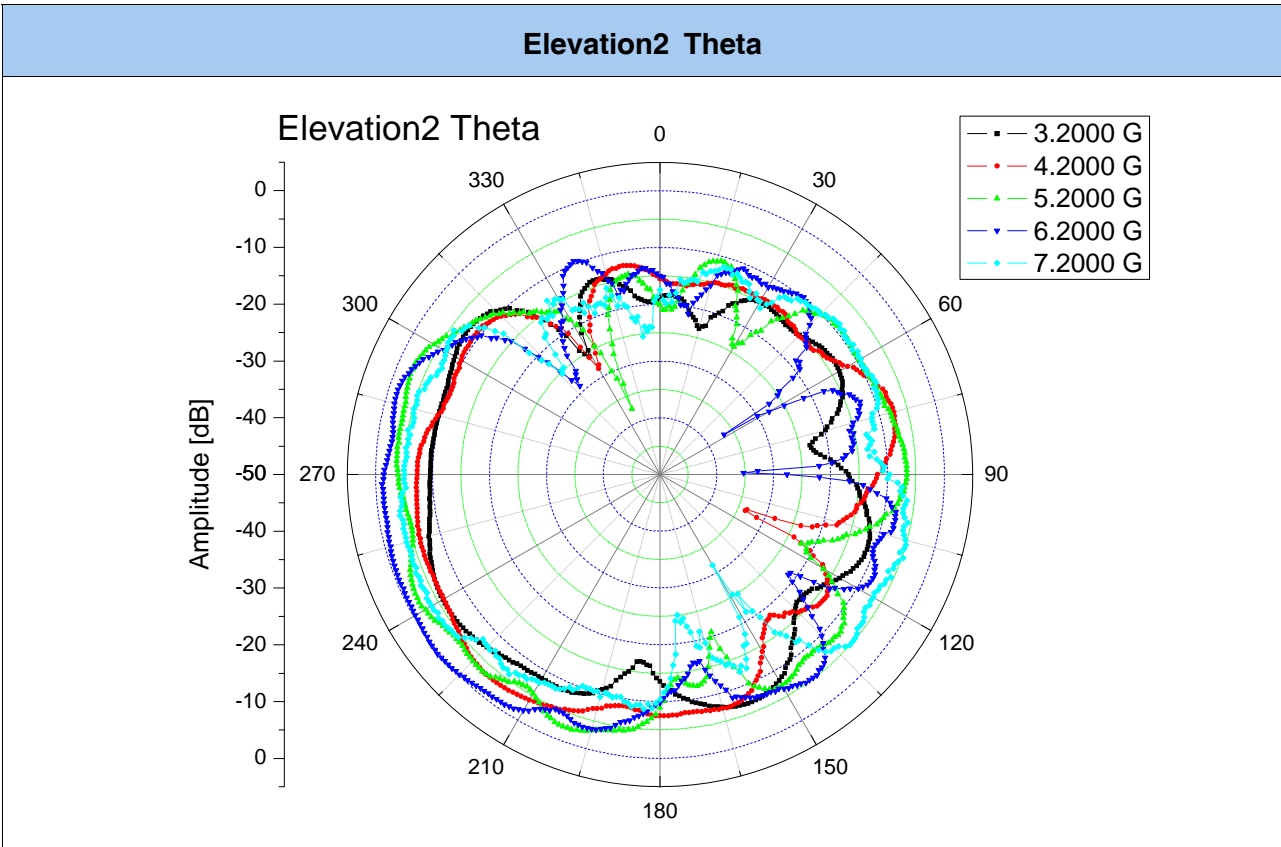
## ■ 2D RADIATION PATTERN



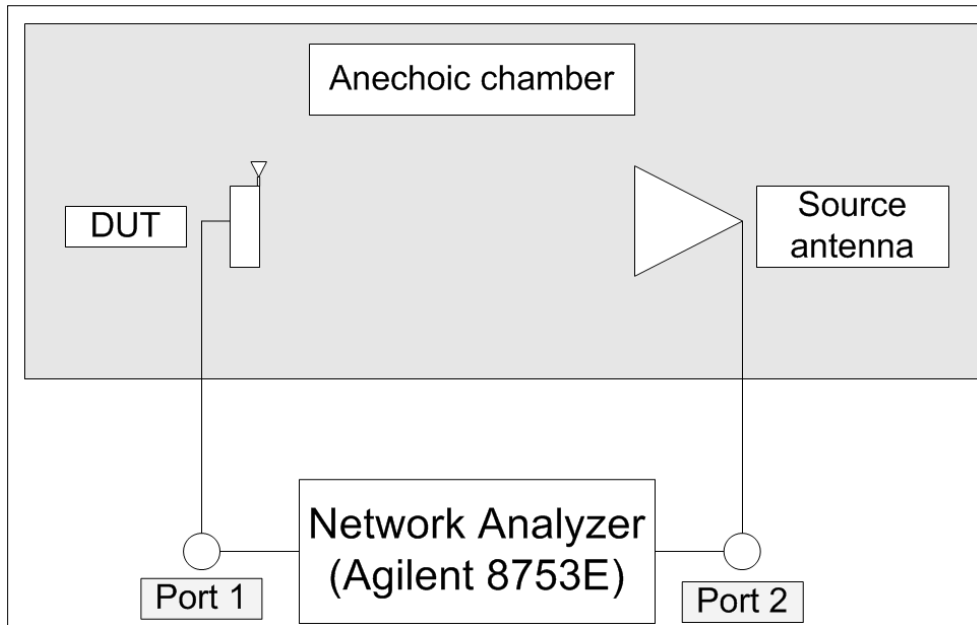
## 2D RADIATION PATTERN



## 2D RADIATION PATTERN

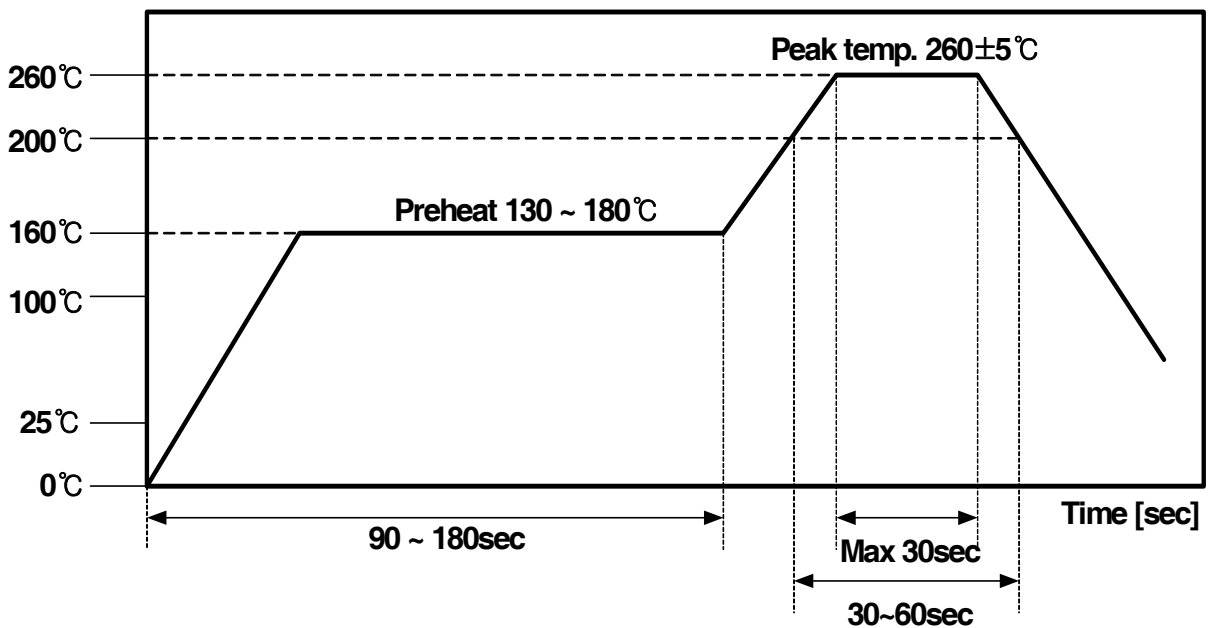


## Gain Measurement block diagram



## Soldering Condition - Reflow Soldering

### - Reflow Soldering



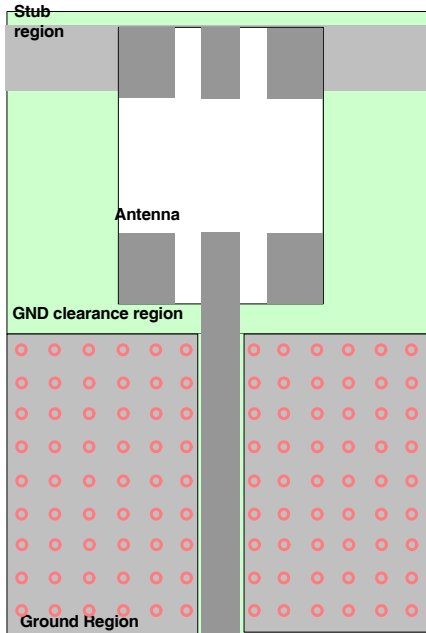
### - Manual Soldering

	Condition
Pre-Heating Temperature	120°C , 60 ~ 300 sec
Soldering Temperature	340°C ± 5°C , 5 sec max per each terminal

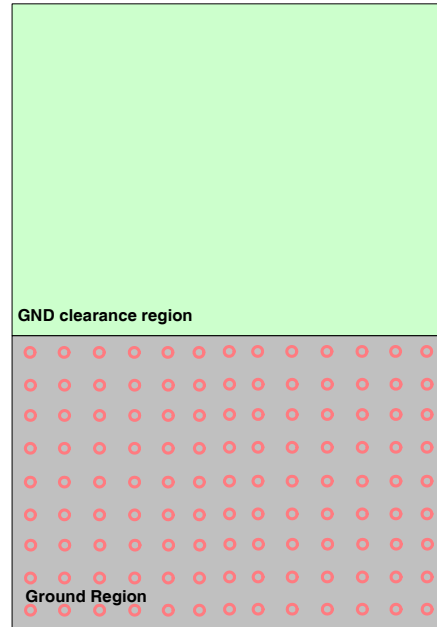
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## FEEDING METHOD (unit : mm, tolerance : $\pm 0.05$ )

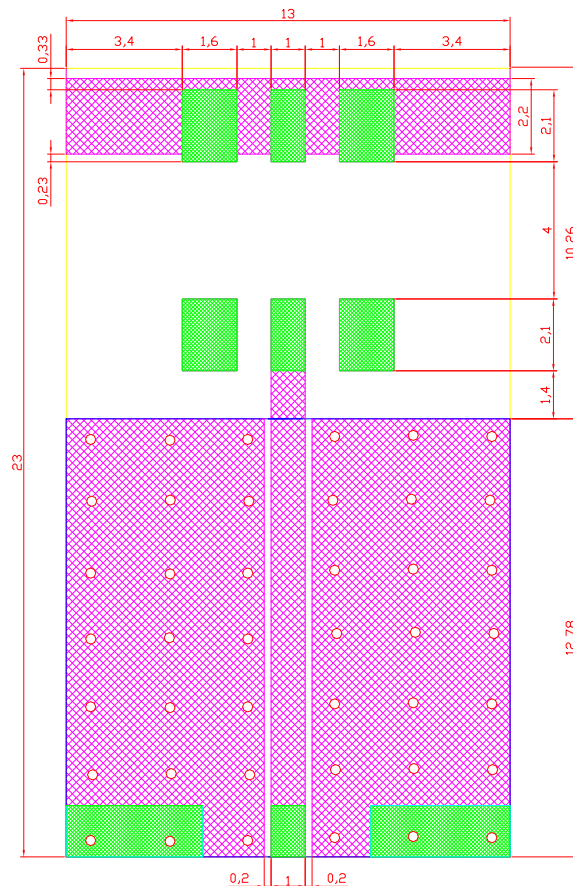


< Top View >



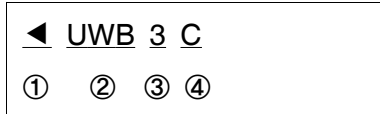
< Bottom View >

## Recommended Test Board(CAD)



Unit : mm  
Board thickness : 1.0mm

## ■ LOT 번호 표기법 & Marking



- ① Feeding Direction
- ② Model
- ③ 년 : 0 - 2010, 1 - 2011, 2 - 2012, 3 - 2013, 4 - 2014, ……
- ④ 월 : 1-1월, 2-2월, ……, A-10월, B-11월, C-12월

