

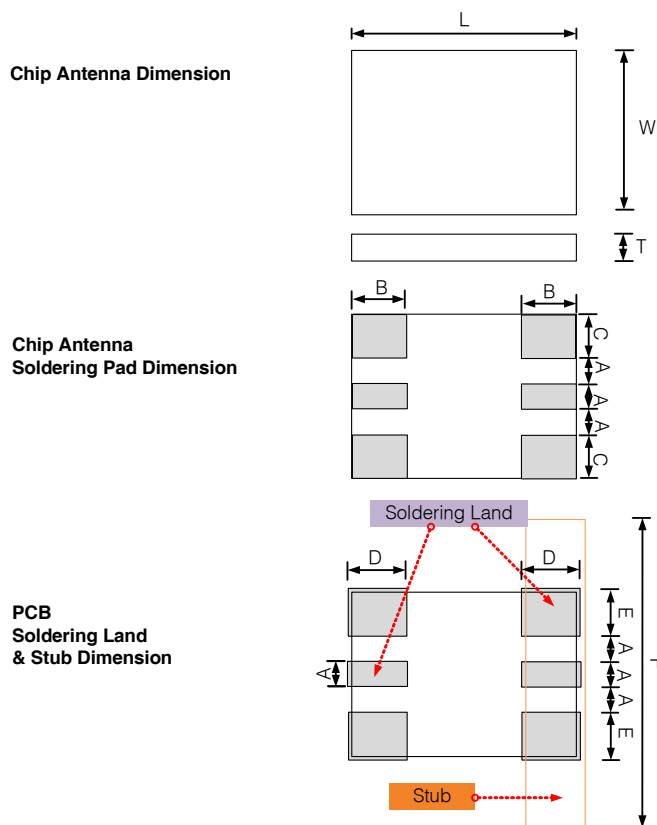
Dielectric Chip Antenna



P/N : ACS5200HFAUWB

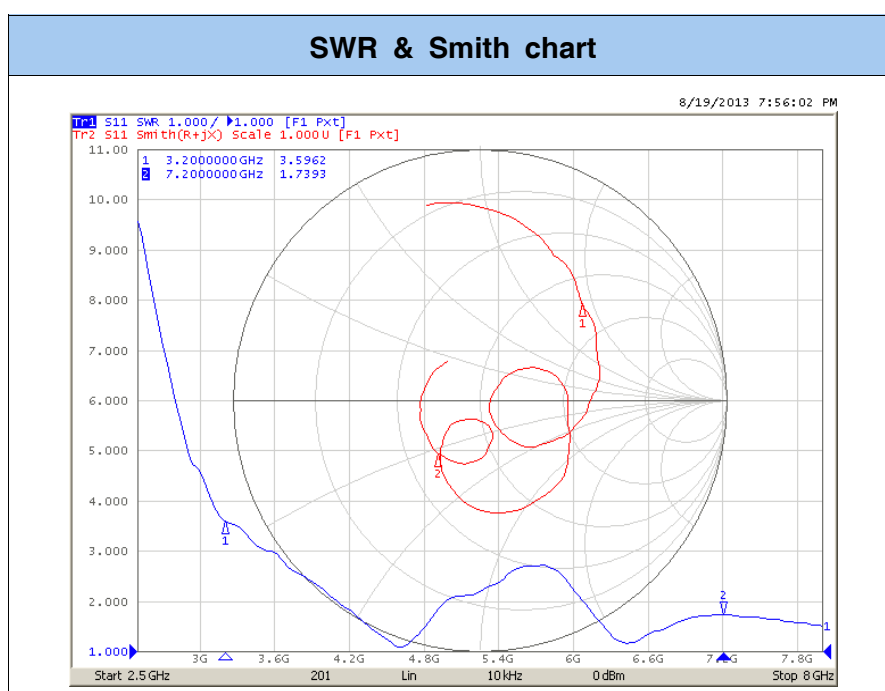
This specification covers the dielectric chip antenna ACS5200HFAUWB used in 3200~7200MHz Wireless Communication.

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



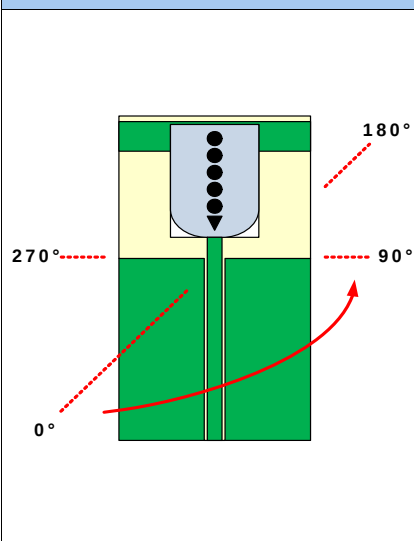
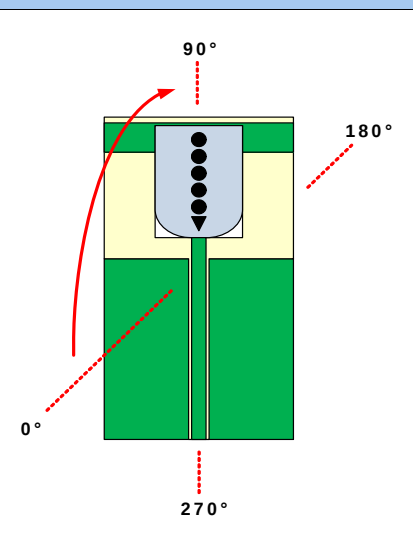
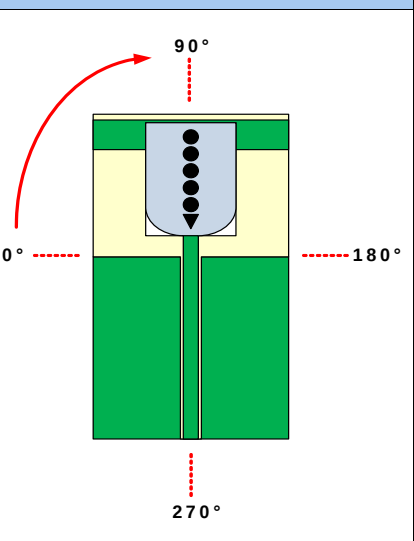
L	8.0
W	6.0
T	1.2
A	1.0
B	2.0
C	1.5
D	2.1
E	1.6
F	13.0

ELECTRICAL CHARACTERISTICS



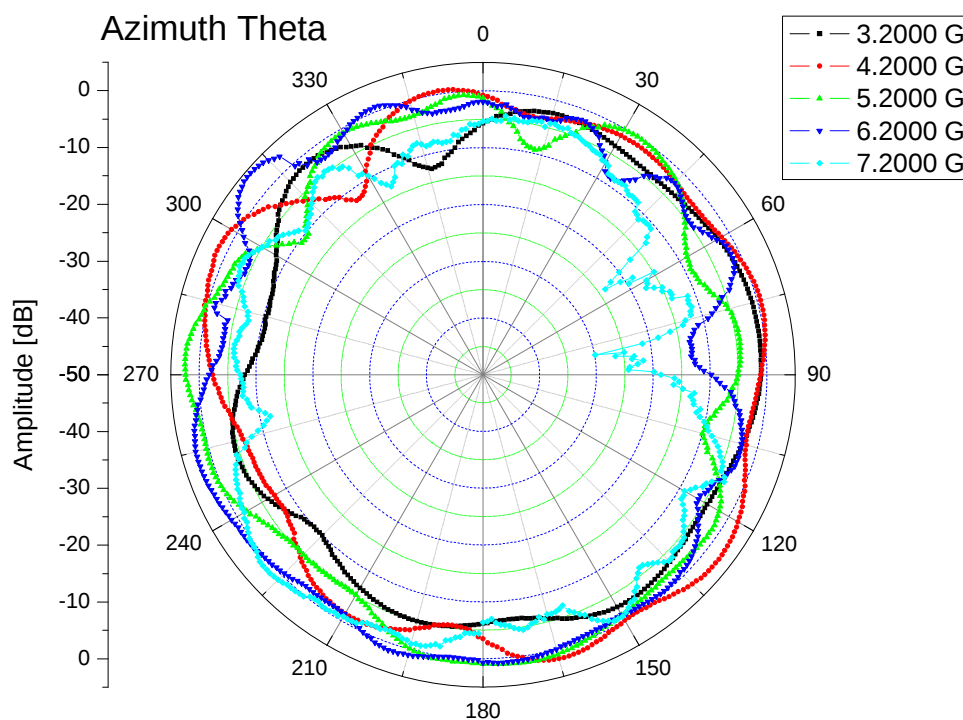
ELECTRICAL CHARACTERISTICS (2D)

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
		Phi	Peak	-3.84	-2.16	-1.91	-2.61	-5.20
			Average	-9.61	-8.20	-8.16	-9.96	-11.63
	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
		Phi	Peak	-2.99	1.98	1.81	2.92	0.20
			Average	-6.65	-3.30	-3.37	-3.04	-3.71
	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
		Phi	Peak	-0.52	2.23	1.52	1.39	1.12
			Average	-5.23	-3.30	-3.66	-3.90	-4.74

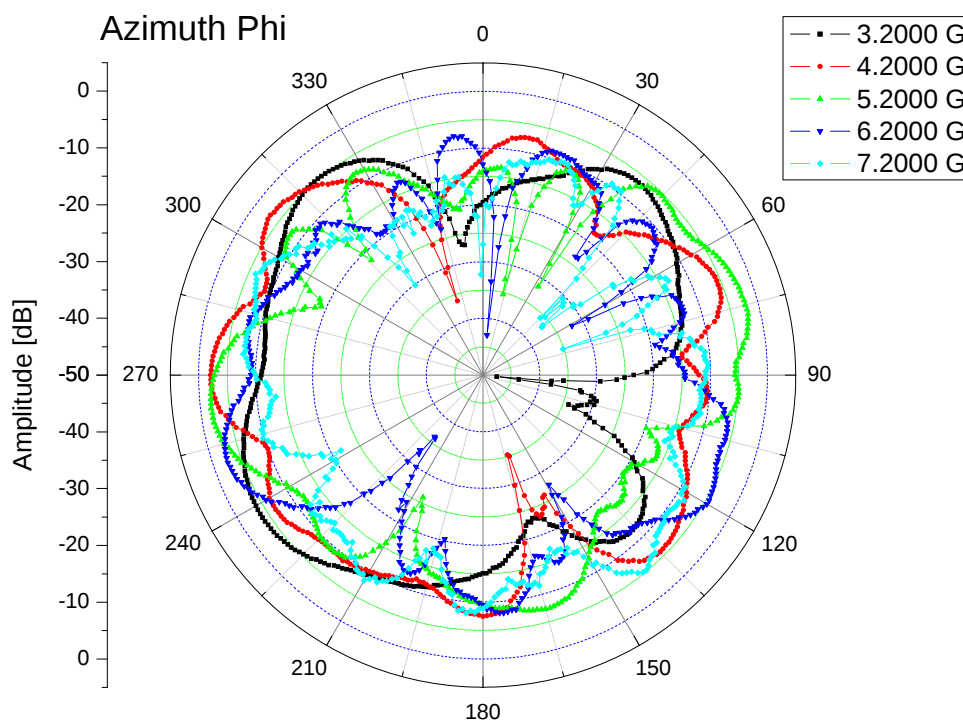
Azimuth Plane	Elevation1 Plane	Elevation2 Plane
		
Theta	Vertical field of measured plane	
Phi	Horizontal field of measured plane	

■ 2D RADIATION PATTERN

Azimuth Theta

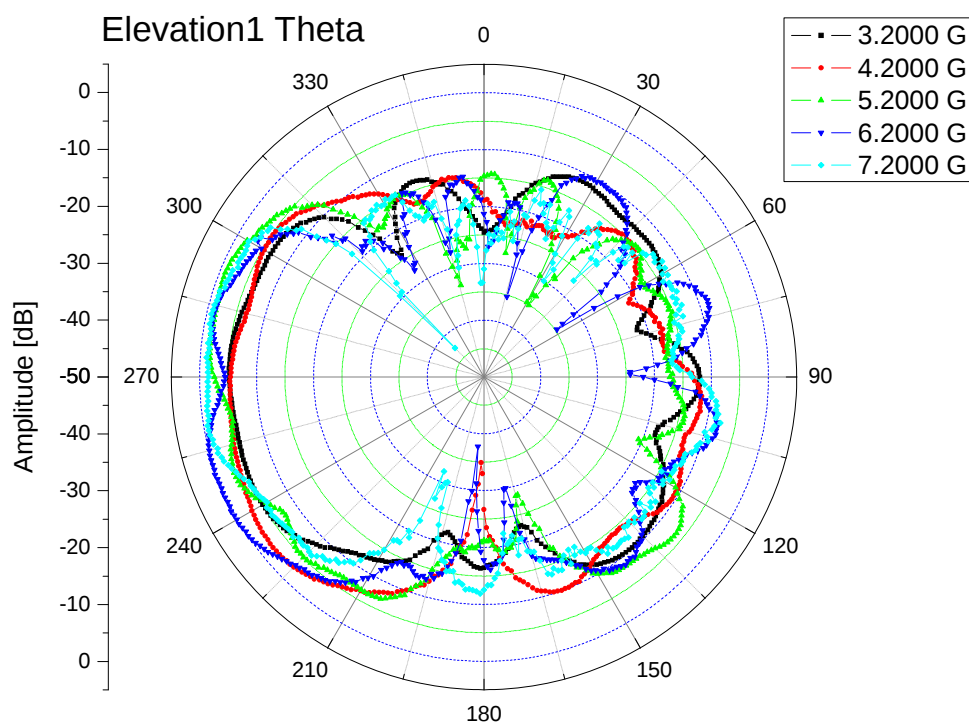


Azimuth Phi

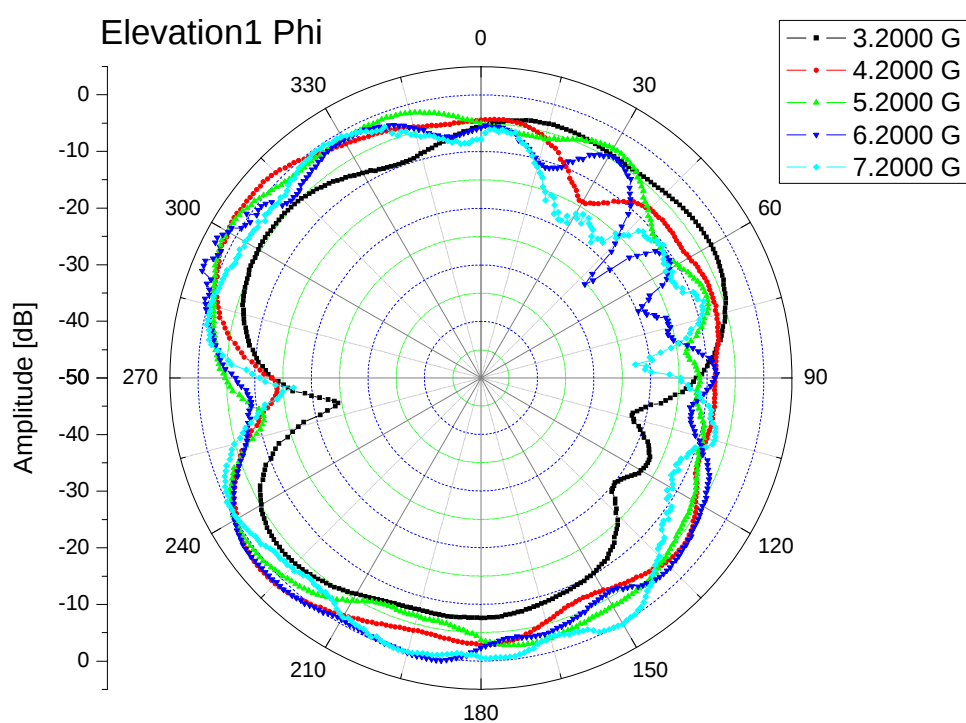


■ 2D RADIATION PATTERN

Elevation1 Theta

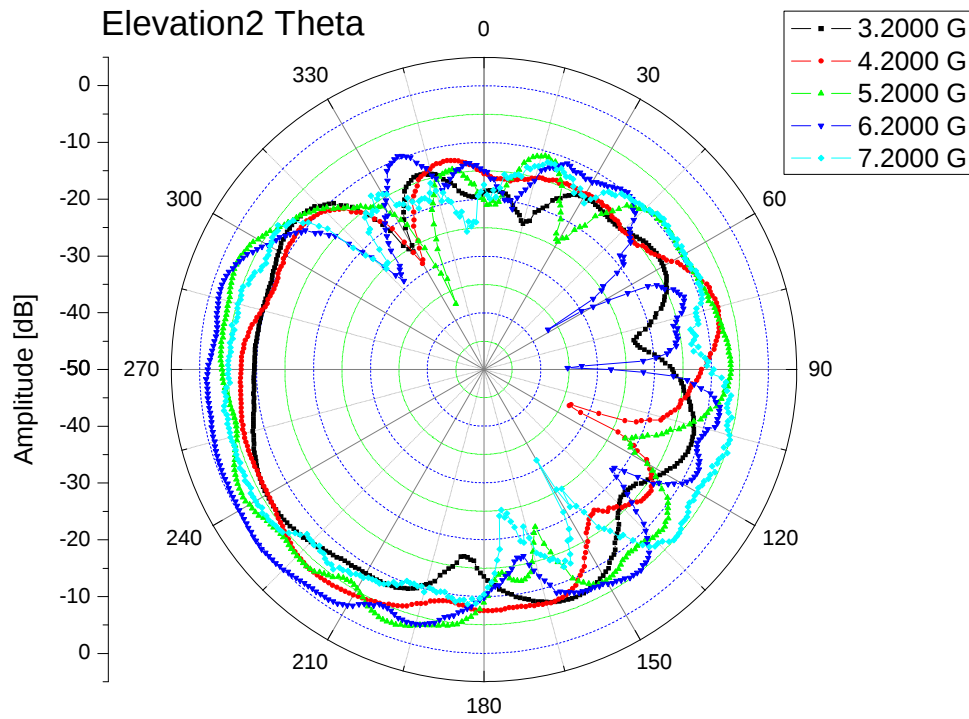


Elevation1 Phi

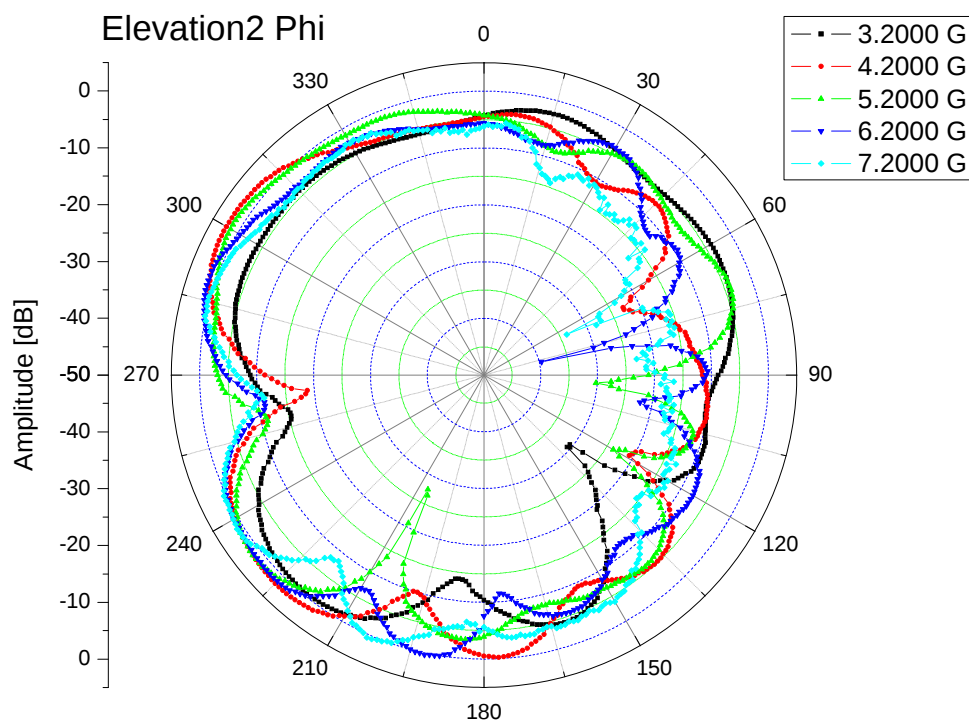


■ 2D RADIATION PATTERN

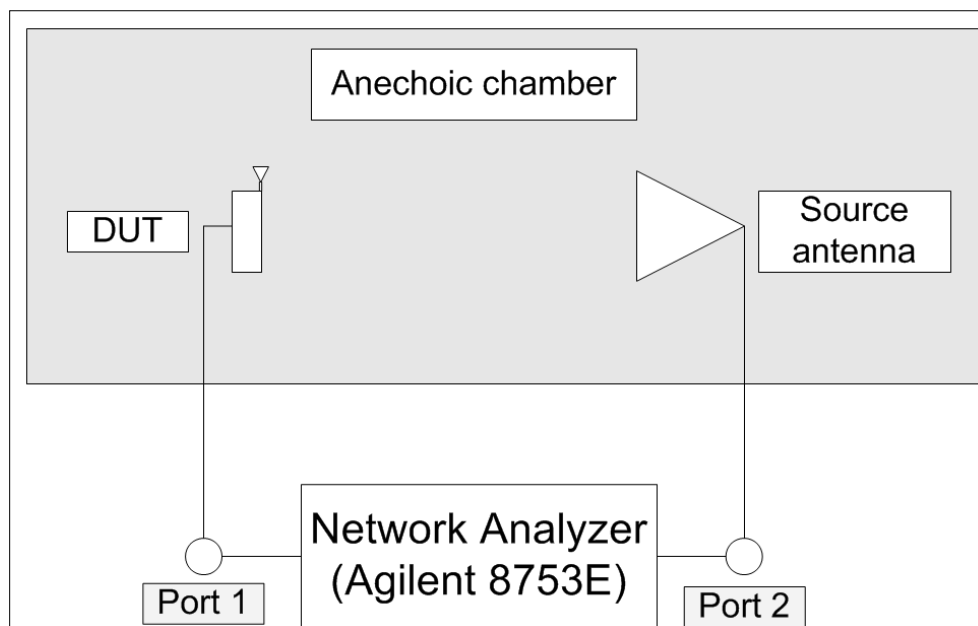
Elevation2 Theta



Elevation2 Phi

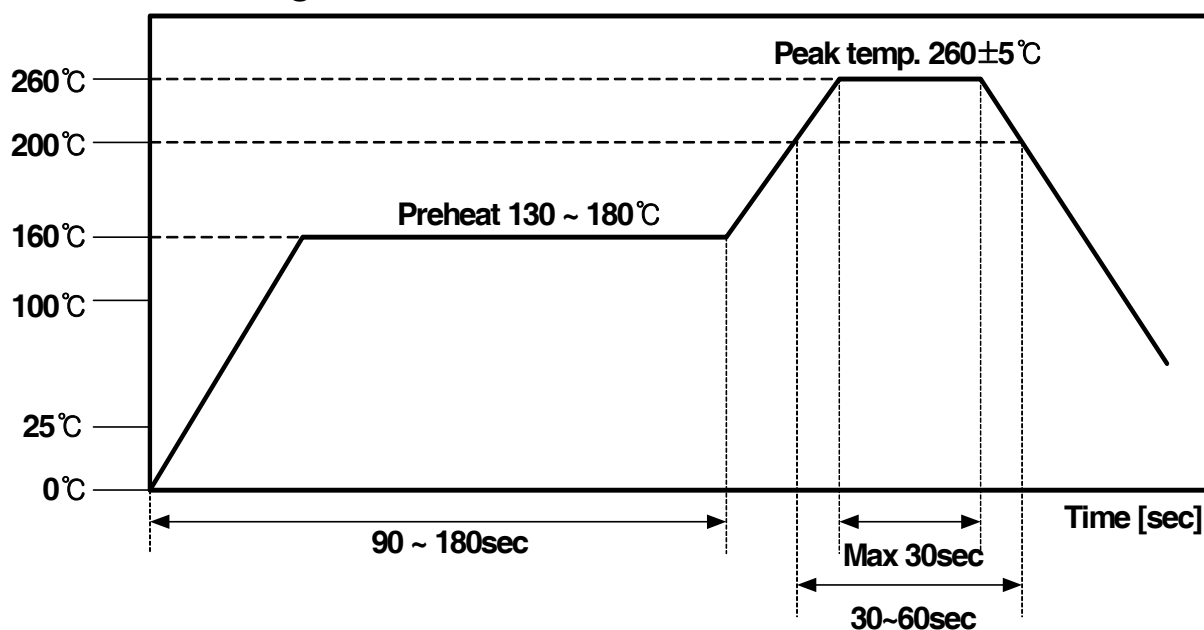


■ Gain Measurement block diagram



■ Soldering Condition - Reflow Soldering

- Reflow Soldering



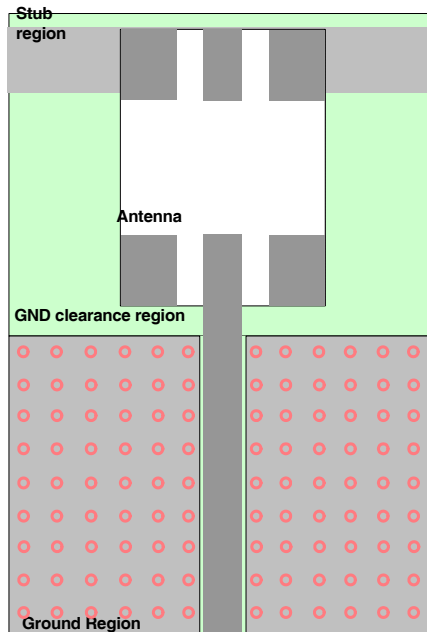
- Manual Soldering

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

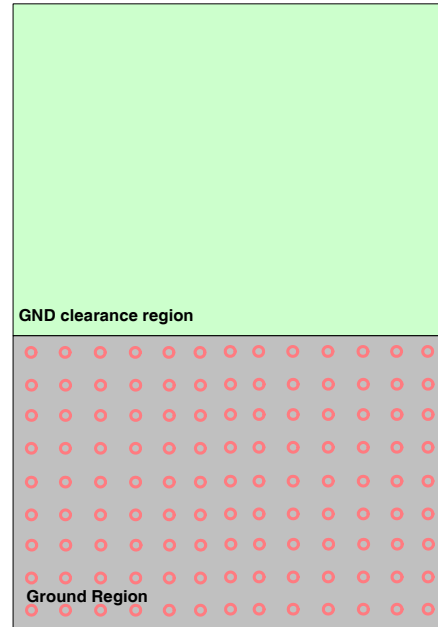
Dielectric Chip Antenna



■ FEEDING METHOD (unit : mm, tolerance : ± 0.05)

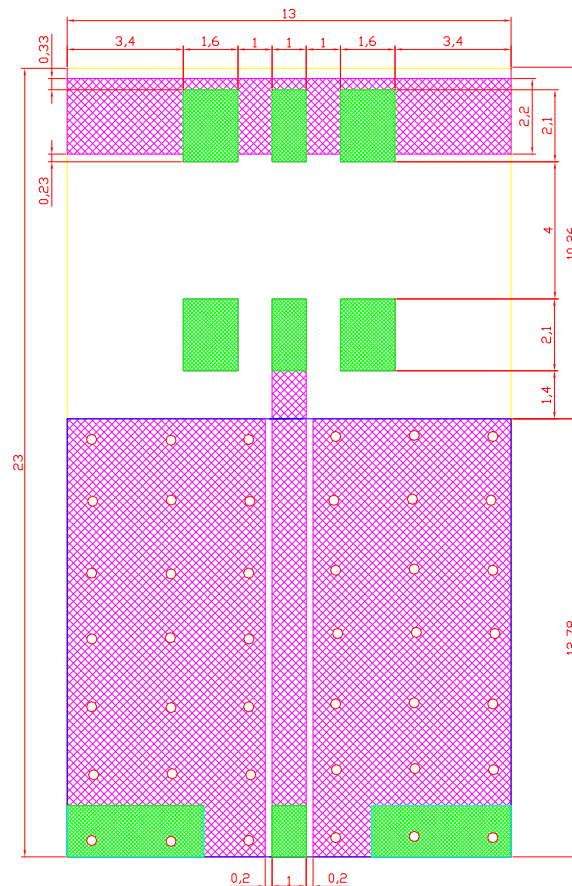


< Top View >



< Bottom View >

■ Recommended Test Board(CAD)



Unit : mm

Board thickness : 1.0mm

■ LOT 번호 표기법 & Marking

◀ UWB 3 C

① ② ③ ④

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

Marking View

