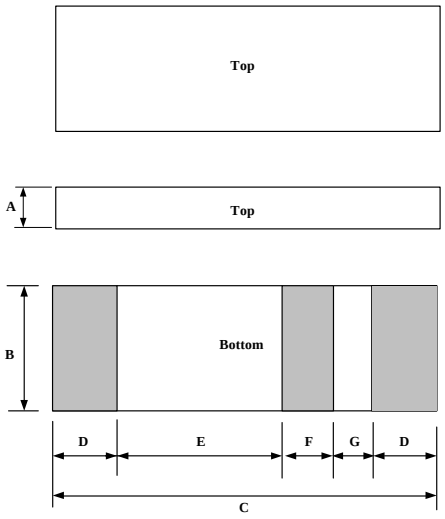
Dielectric Chip Antenna

■ P/N : ACS1575LDBXX

This specification covers the dielectric chip antenna ACS1575LDBXX used in GPS

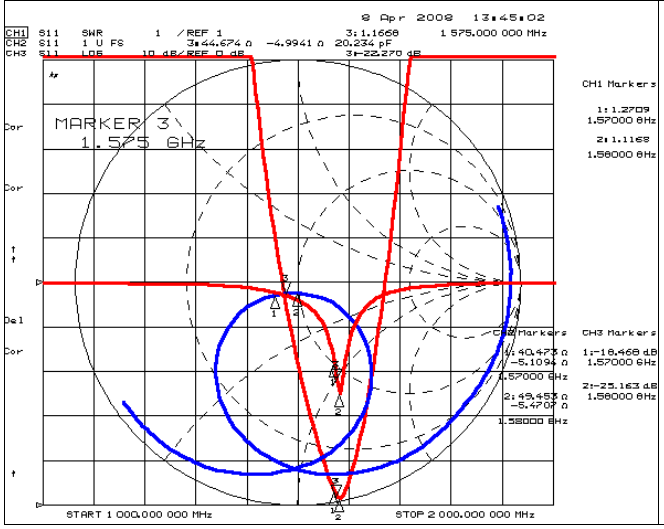
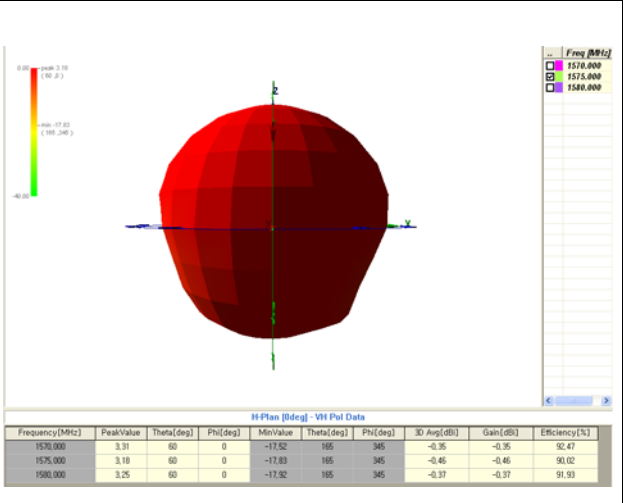
■ MECHANICAL DIMENSION (unit : mm, tolerance : ± 0.1)



A	2.0
B	4.0
C	12.0
D	2.0
E	5.5
F	1.5
G	1.0

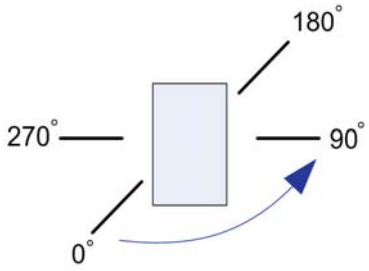
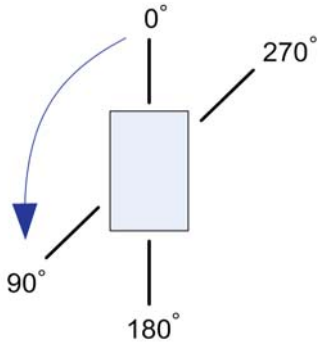
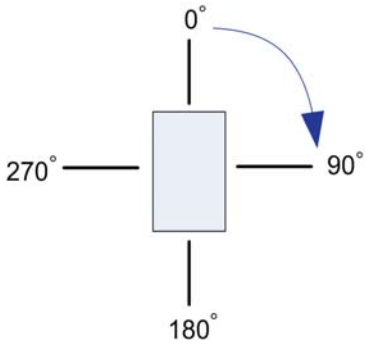
■ ELECTRICAL CHARACTERISTICS

ITEM		SPEC		
Frequency Range		1570 ~ 1580 MHz		
VSWR		2:1 Max		
Polarization		Linear		
Frequency [MHz]		1570	1575	1580
Gain [dBi]	Peak	3.31	3.18	3.25
	Average	-0.35	-0.46	-0.37
Efficiency [%]		92.47	90.02	91.93

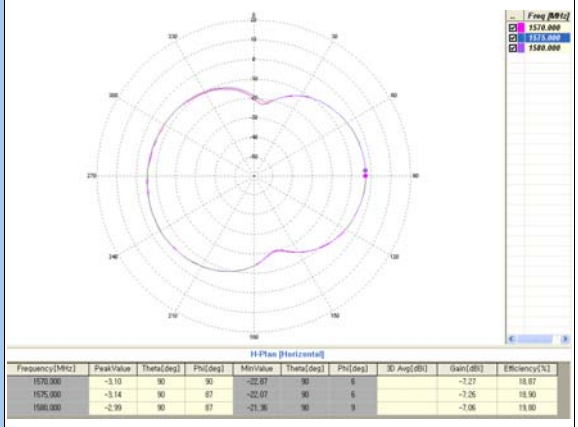
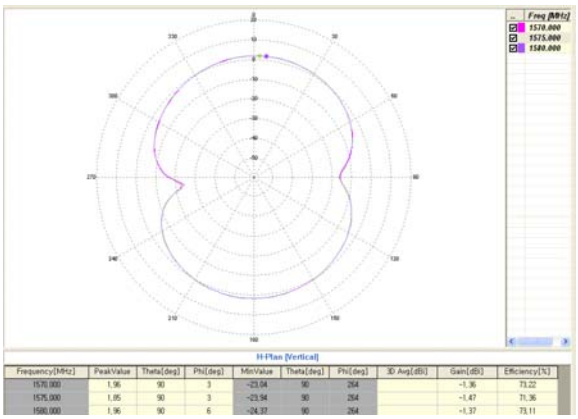
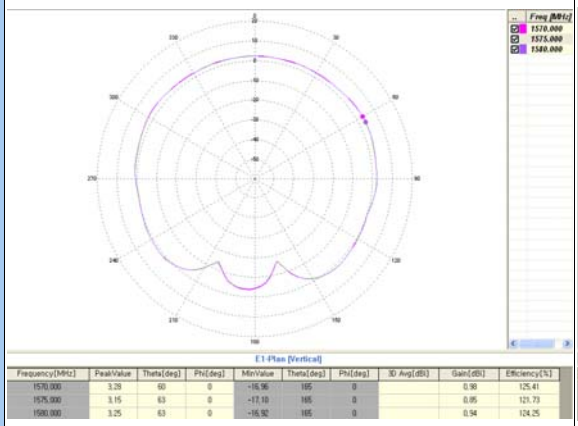
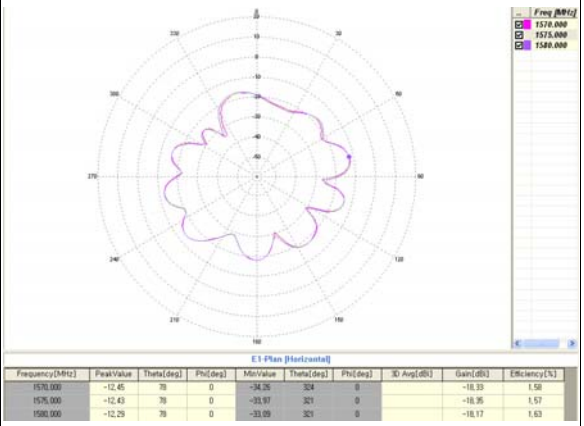
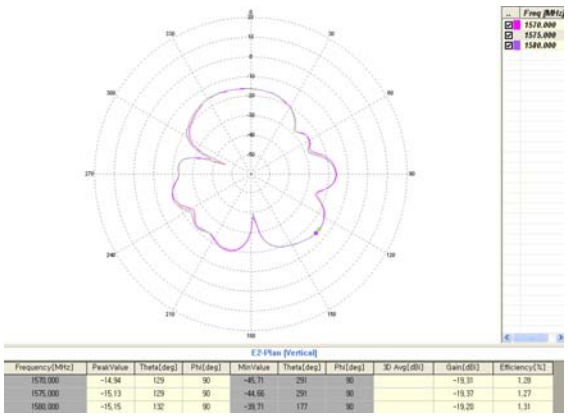
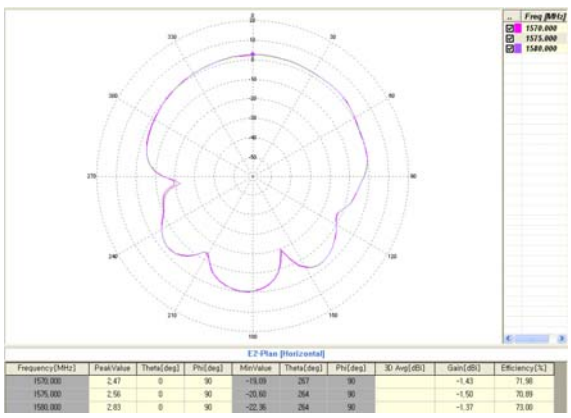
SWR & Smith chart	3D Radiation Pattern
	

■ ELECTRICAL CHARACTERISTICS (2D)

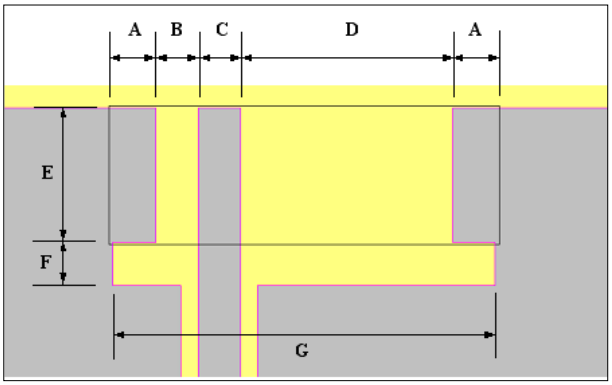
2D Measurement				
Gain	Azimuth	Theta	Peak	-2.99
			Average	-7.06
		Phi	Peak	1.96
			Average	-1.36
	Elevation 1	Theta	Peak	3.28
			Average	0.98
		Phi	Peak	-12.29
			Average	-18.17
	Elevation 2	Theta	Peak	-15.15
			Average	-19.20
		Phi	Peak	2.83
			Average	-1.37

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

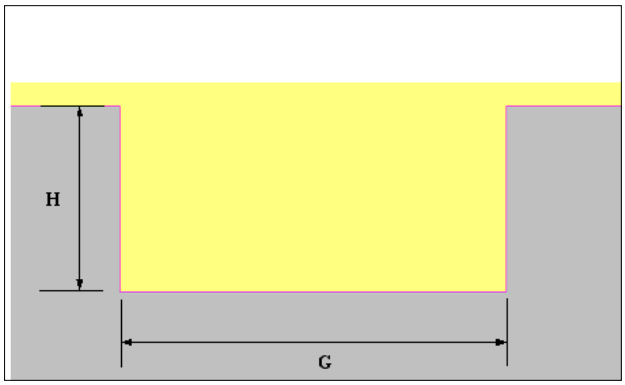
■ 2D RADIATION PATTERN

	Theta	Phi
Azimuth		
Elevation1		
Elevation2		

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

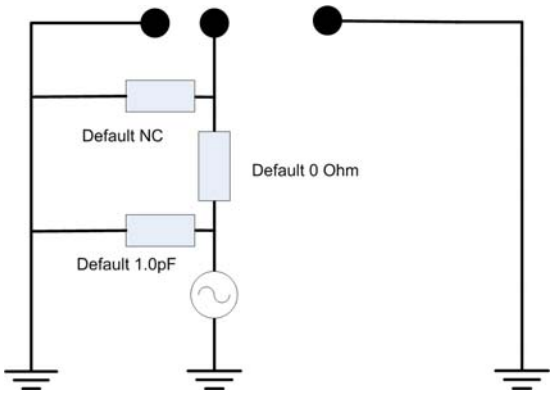


< Top View >



< Bottom View >

Parameter	A	B	C	D	E	F	G	H
Value[mm]	2.1	1.0	1.5	5.5	4.1	1.0	12.0	5.0



< Default Condition Equivalent Circuit >

AutoCAD Drawing of Reference PCB Design