

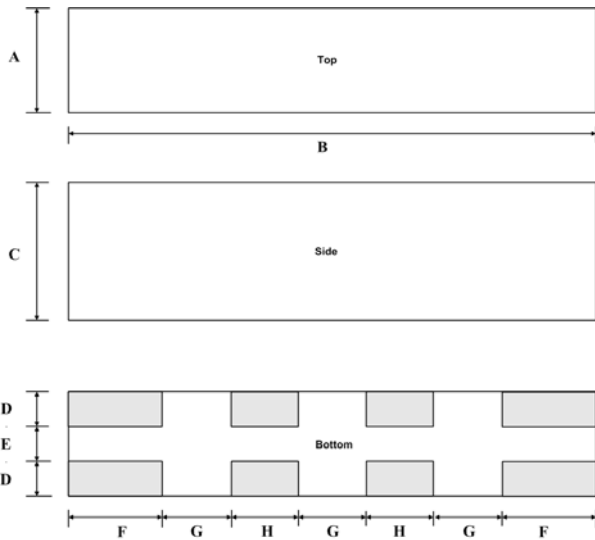
# Dielectric Chip Antenna



## ■ P/N : ACS1575PCDXX

This specification covers the dielectric chip antenna ACS1575PCDXX used in GPS

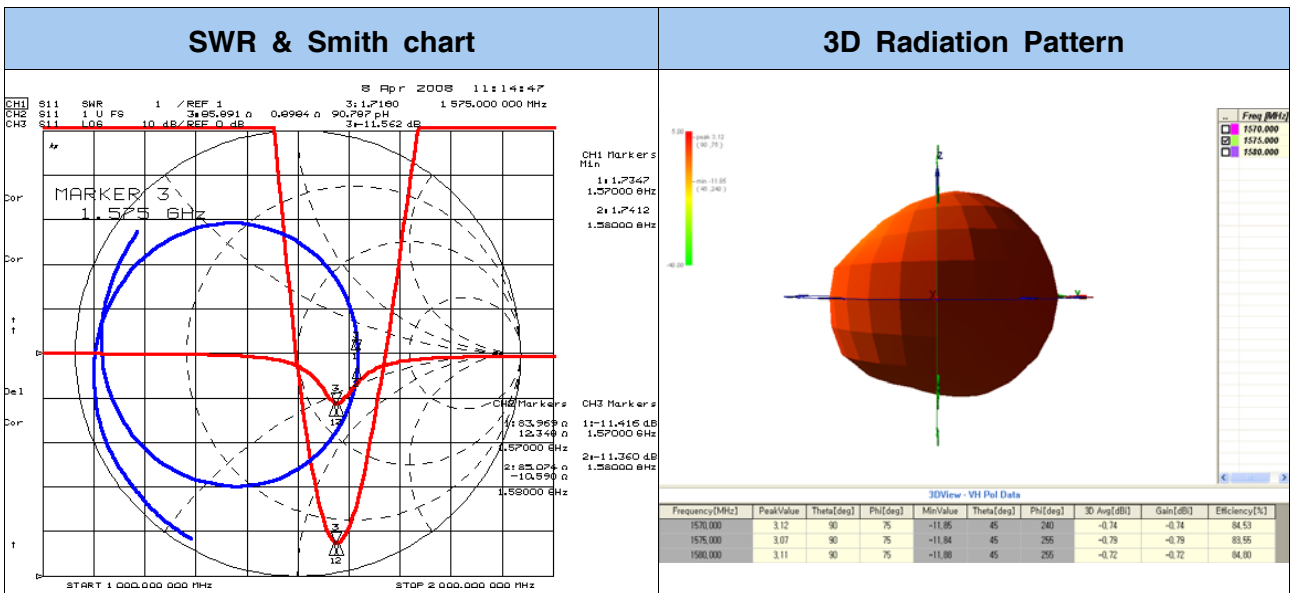
## ■ MECHANICAL DIMENSION (unit : mm, tolerance : ± 0.1)



A	3.0
B	16.0
C	4.0
D	1.0
E	1.0
F	3.0
G	2.0
H	2.0

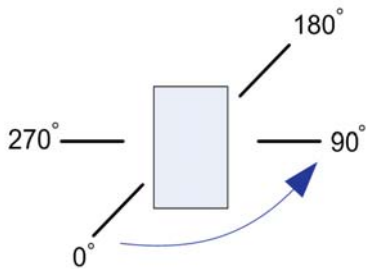
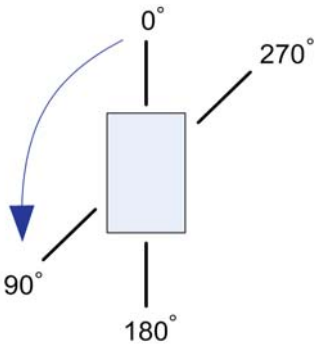
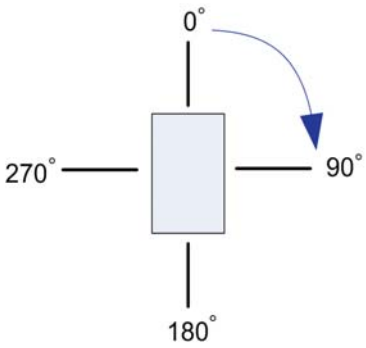
## ■ ELECTRICAL CHARACTERISTICS

ITEM		SPEC		
Frequency Range		1570 ~ 1580 MHz.		
VSWR		2:1 Max		
Polarization		Linear		
Frequency [MHz]		1570	1575	1580
Gain [dBi]	Peak	3.12	3.07	3.11
	Average	-0.74	-0.79	-0.72
Efficiency [%]		84.53%	83.55%	84.80%

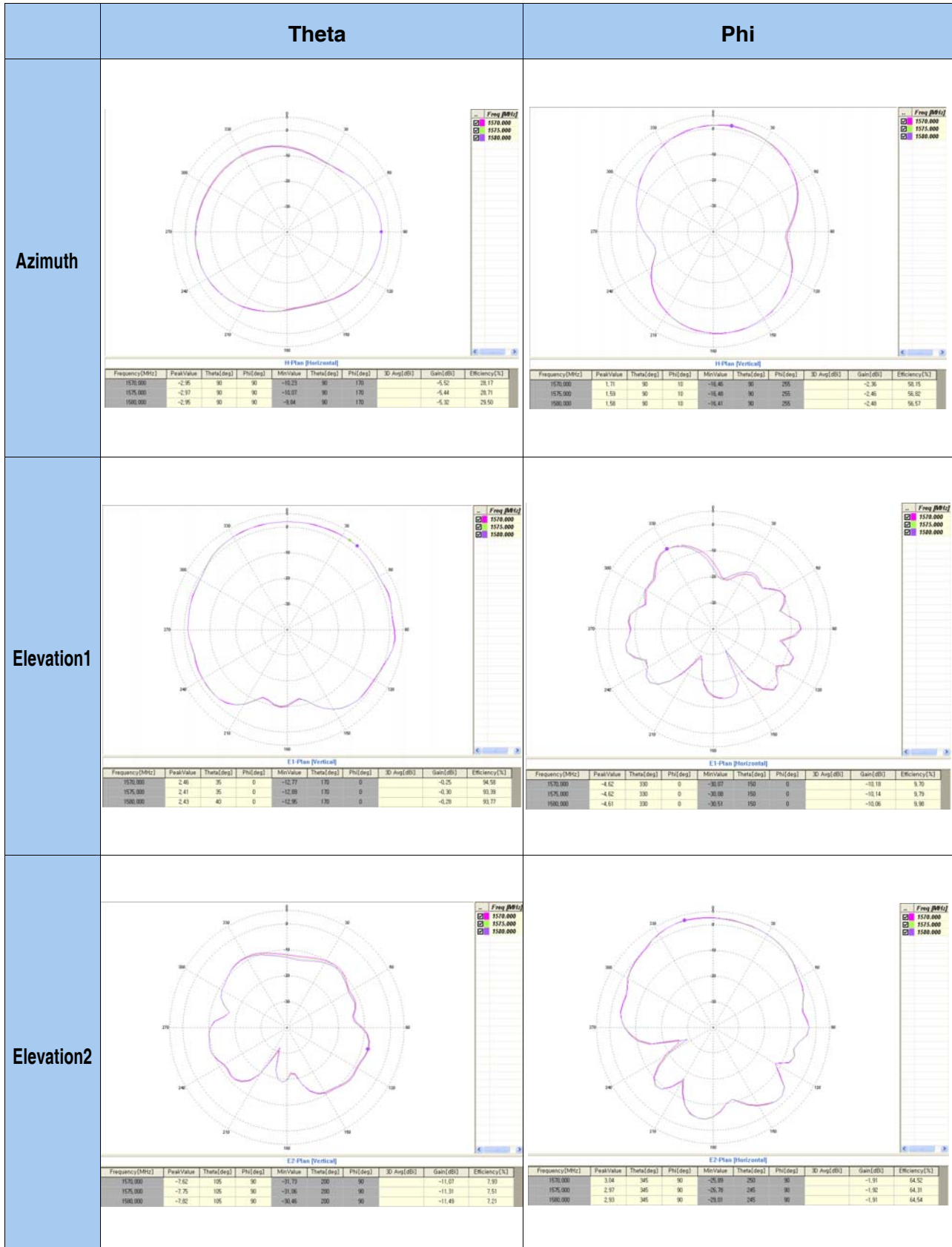


## ELECTRICAL CHARACTERISTICS (2D)

2D Measurement				
Gain	Azimuth	Theta	Peak	-2.95
			Average	-5.32
		Phi	Peak	1.71
			Average	-2.36
	Elevation 1	Theta	Peak	2.46
			Average	-0.25
		Phi	Peak	-4.61
			Average	-10.06
	Elevation 2	Theta	Peak	-7.62
			Average	-11.07
		Phi	Peak	3.04
			Average	-1.91

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

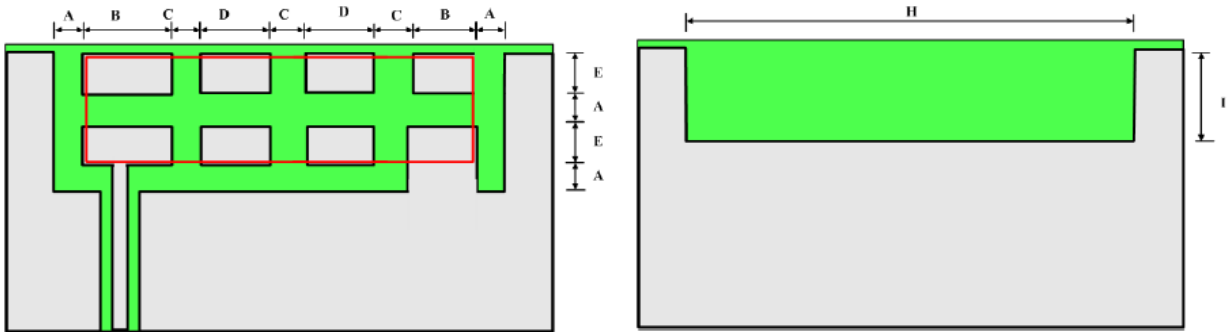
## 2D RADIATION PATTERN



# Dielectric Chip Antenna



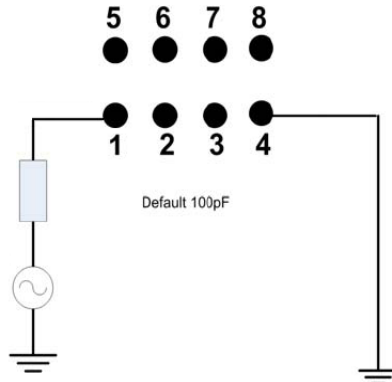
## FEEDING METHOD (unit : mm, tolerance : $\pm 0.05$ )



< Top View >

< Bottom View >

Parameter	A	B	C	D	E	F	G	H	I
Value[mm]	1.0	3.2	2.0	2.0	1.2	1.0	1.0	18.4	2.2



< Default Condition Equivalent Circuit >

## AutoCAD Drawing of Reference PCB Design

