

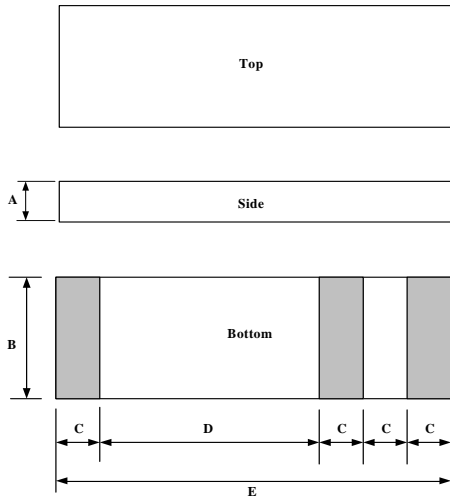
# Dielectric Chip Antenna



## P/N : ACS1575ICAXX

This specification covers the dielectric chip antenna ACS1575ICAXX used in GPS

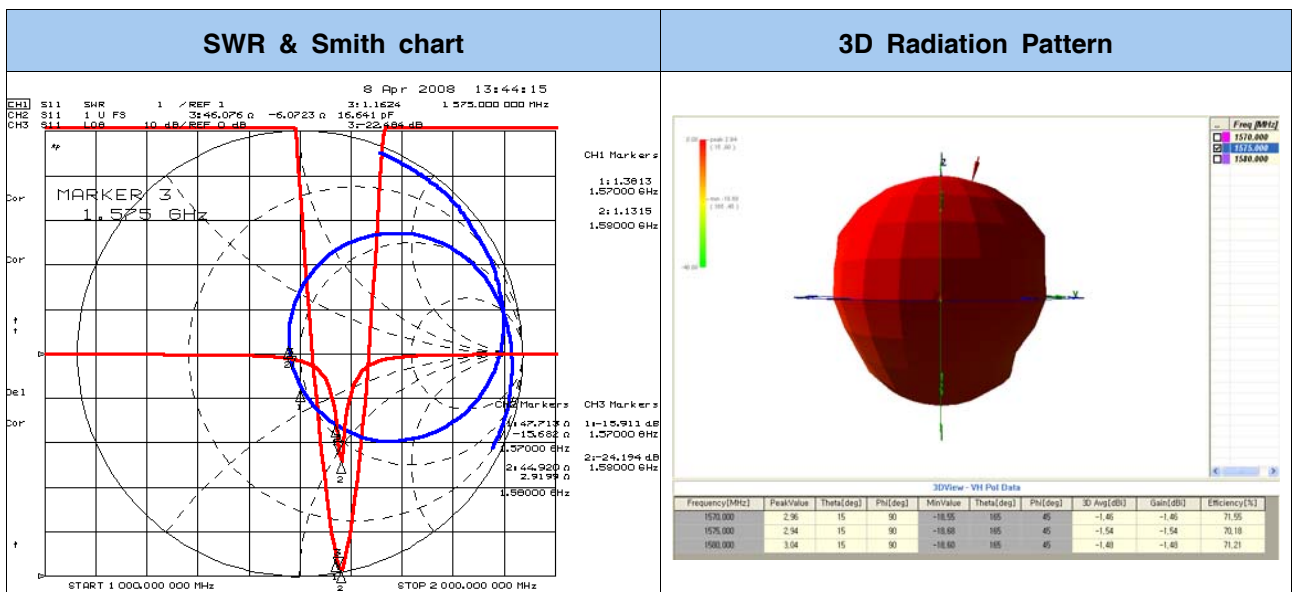
## MECHANICAL DIMENSION (unit : mm, tolerance : ± 0.1)



A	1.2
B	3.0
C	1.0
D	5.0
E	9.0

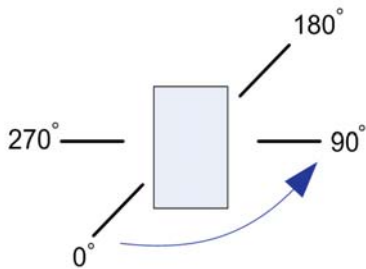
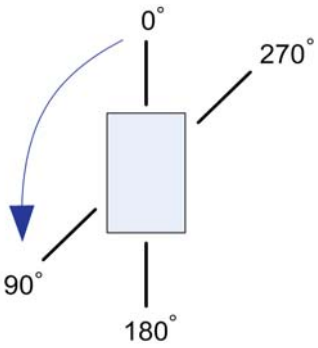
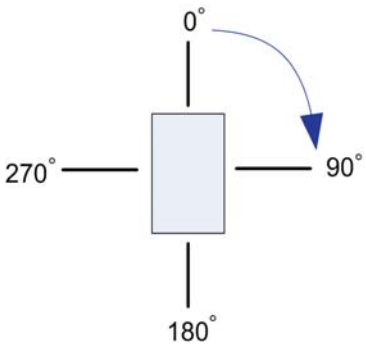
## ELECTRICAL CHARACTERISTICS

ITEM		SPEC		
Frequency Range		1570 ~ 1580 MHz		
VSWR		2:1 Max		
Polarization		Linear		
Frequency [MHz]		1570	1575	1580
Gain [dBi]	Peak	2.96	2.94	3.04
	Average	-1.46	-1.54	-1.48
Efficiency [%]		71.55	70.18	71.21



## ELECTRICAL CHARACTERISTICS (2D)

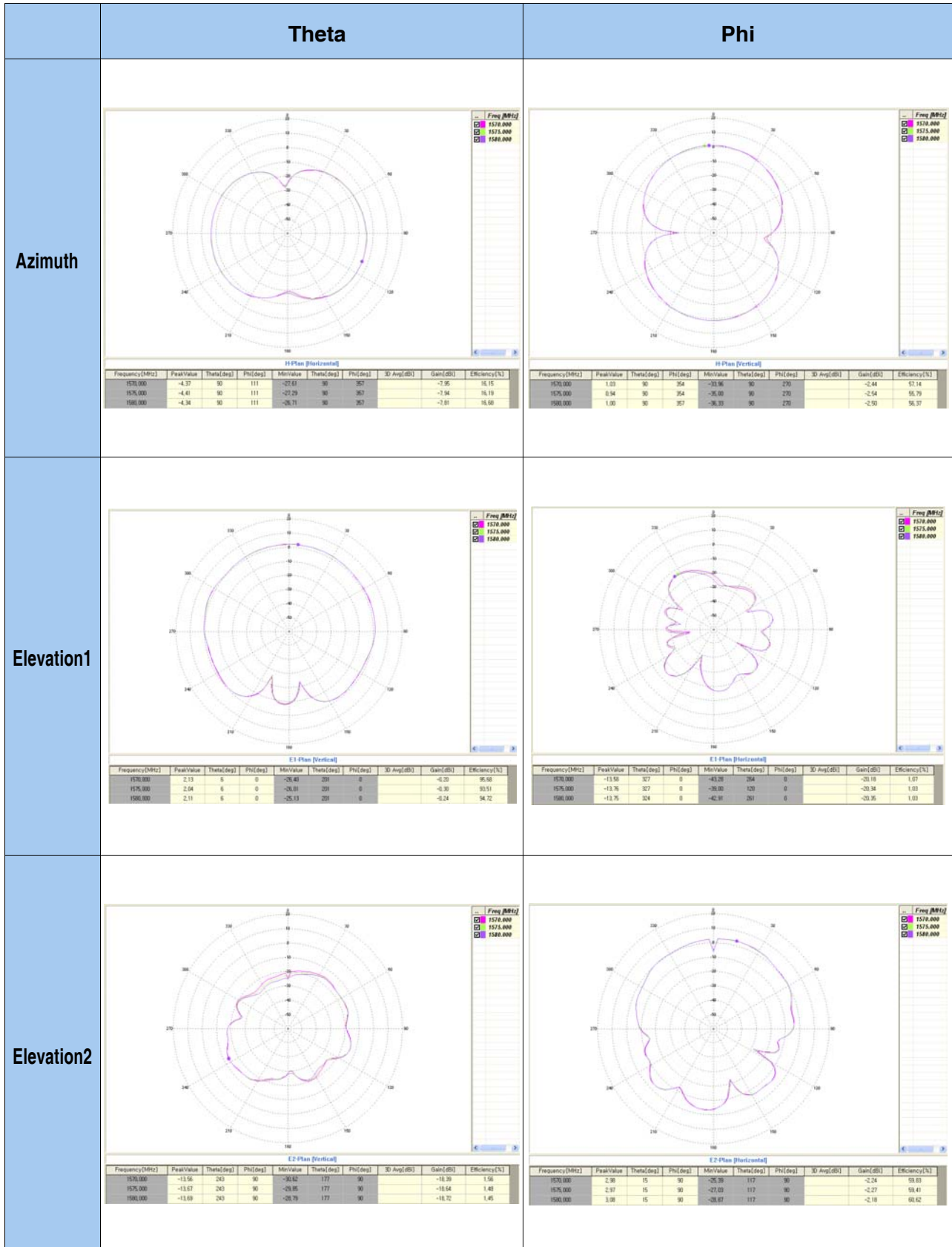
2D Measurement				
Gain	Azimuth	Theta	Peak	-4.34
			Average	-7.81
		Phi	Peak	1.03
			Average	-2.44
	Elevation 1	Theta	Peak	2.13
			Average	-0.20
		Phi	Peak	-13.58
			Average	-20.18
	Elevation 2	Theta	Peak	-13.56
			Average	-18.39
		Phi	Peak	3.08
			Average	-2.18

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

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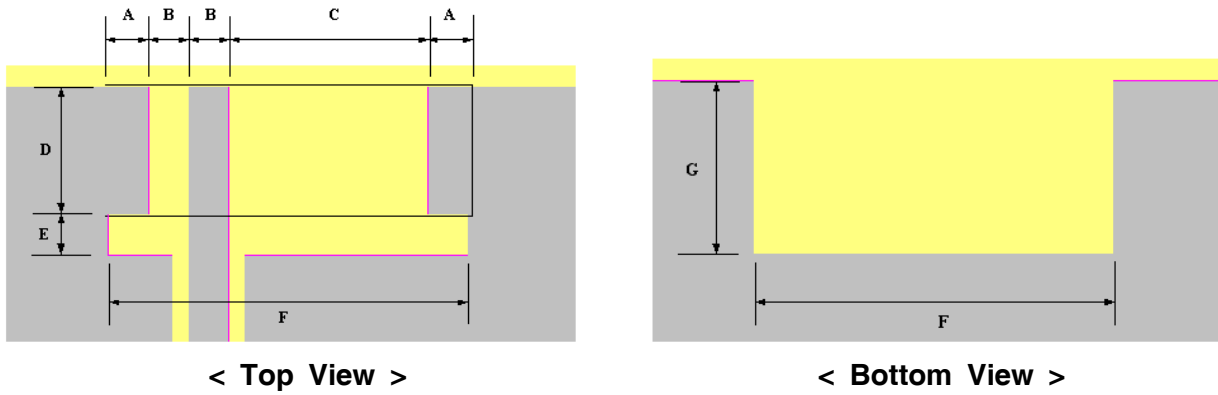
## 2D RADIATION PATTERN



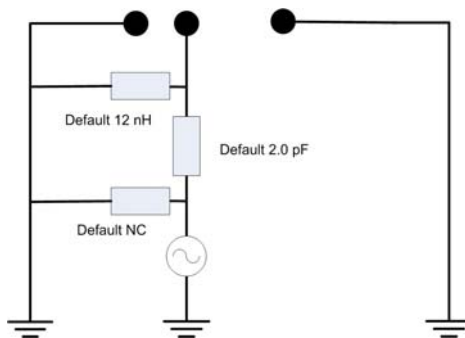
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## FEEDING METHOD (unit : mm, tolerance : $\pm 0.05$ )



Parameter	A	B	C	D	E	F	G
Value[mm]	1.1	1.0	5.0	3.2	1.0	9.0	4.2



< Default Condition Equivalent Circuit >

## AutoCAD Drawing of Reference PCB Design

