

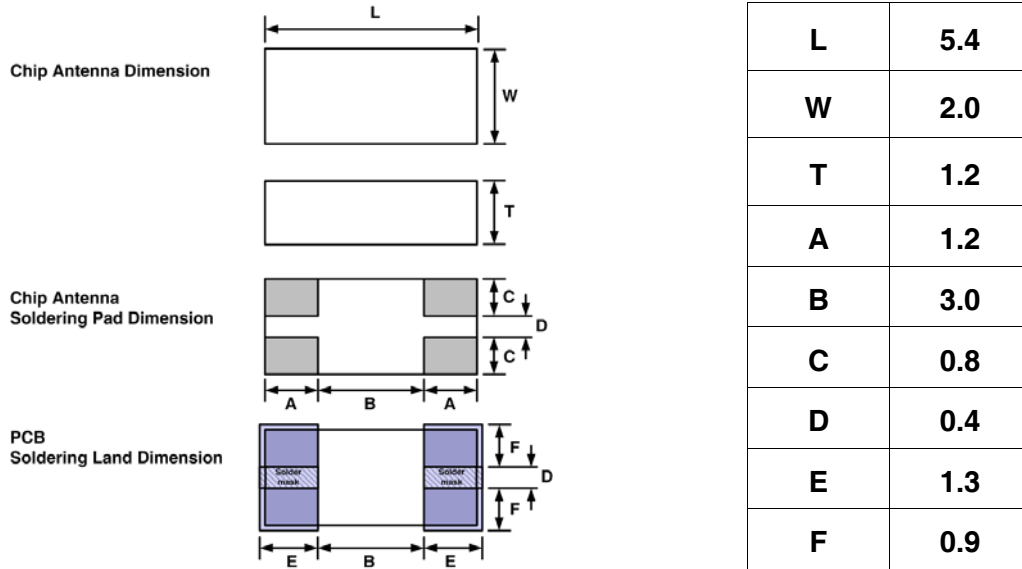
# Dielectric Chip Antenna



■ P/N : ODGPTR5420

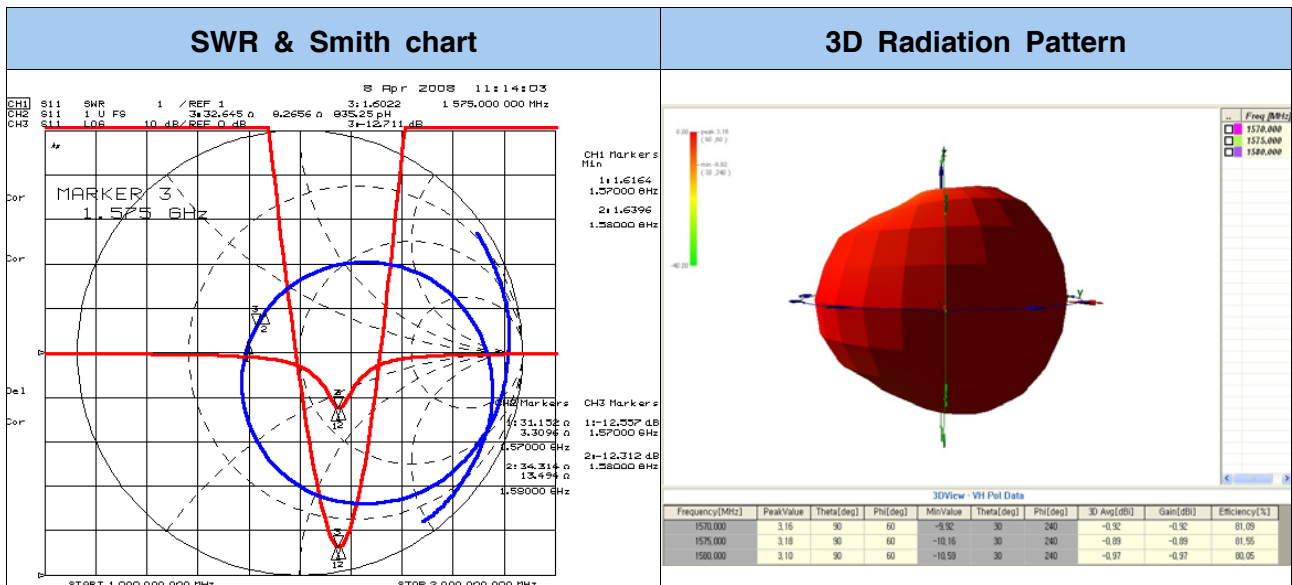
This specification covers the dielectric chip antenna ODGPTR5420 used in GPS

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



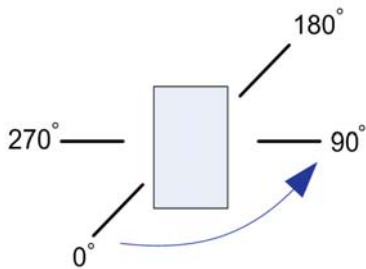
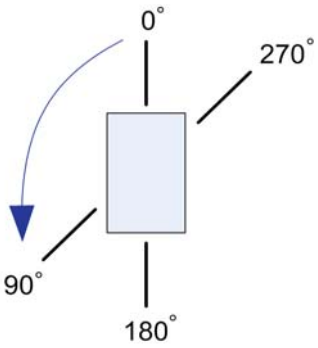
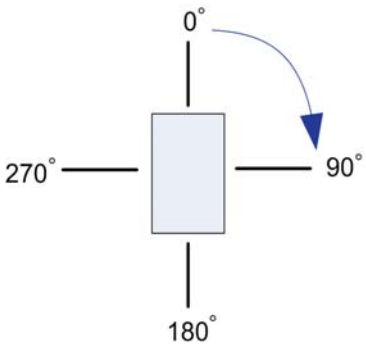
■ ELECTRICAL CHARACTERISTICS

ITEM		SPEC		
Frequency Range		1570 ~ 1580 MHz		
VSWR		2:1 Max		
Polarization		Linear		
Frequency [MHz]		1570	1575	1580
Gain [dBi]	Peak	3.16	3.18	3.10
	Average	-0.92	-0.89	-0.97
Efficiency [%]		81.09	81.55	80.05



## ELECTRICAL CHARACTERISTICS (2D)

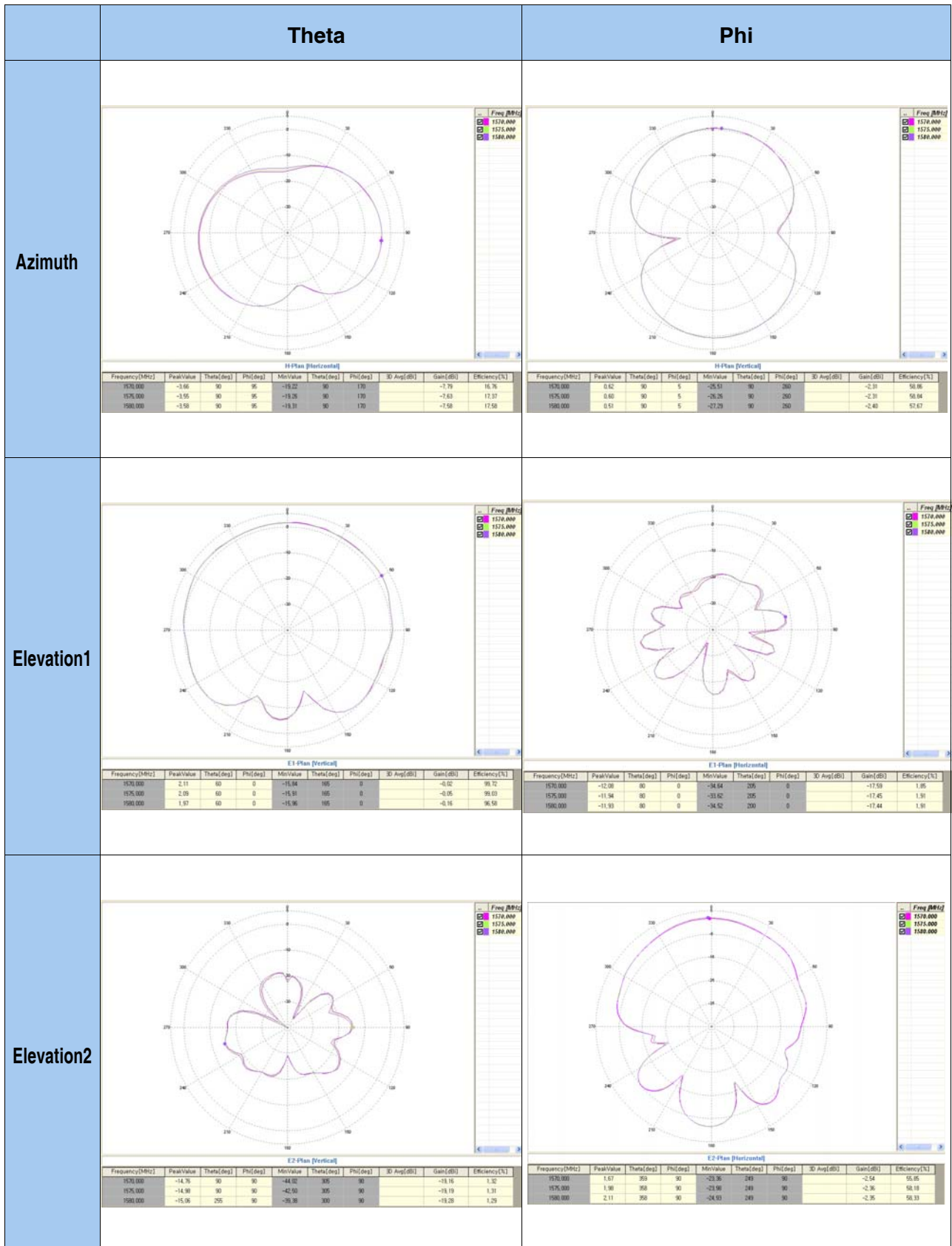
2D Measurement				
Gain	Azimuth	Theta	Peak	-3.58
			Average	-7.58
		Phi	Peak	0.62
			Average	-2.31
	Elevation 1	Theta	Peak	2.11
			Average	-0.02
		Phi	Peak	-11.93
			Average	-17.44
	Elevation 2	Theta	Peak	-14.76
			Average	-19.16
		Phi	Peak	2.11
			Average	-2.35

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

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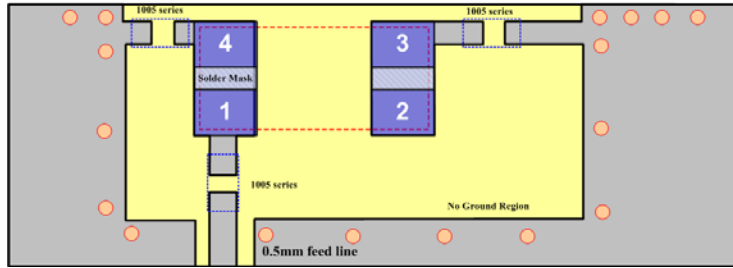


## 2D RADIATION PATTERN

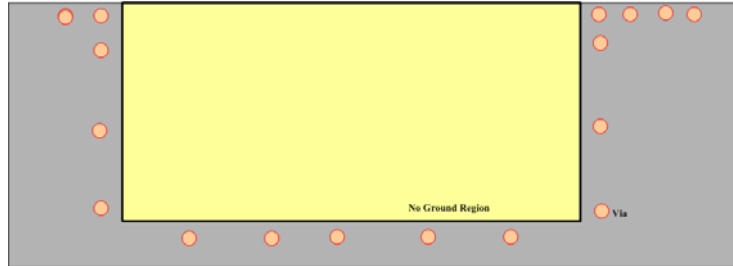


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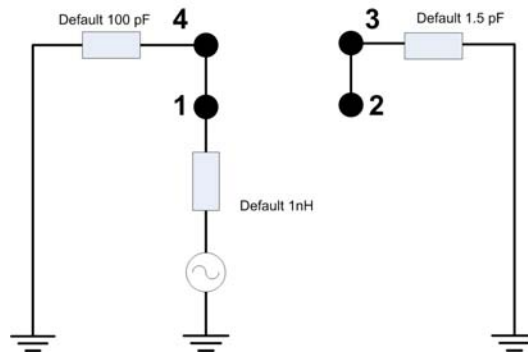
■ **FEEDING METHOD** (unit : mm, tolerance :  $\pm 0.05$ )



< Top View >



< Bottom View >



< Default Condition Equivalent Circuit >

■ **AutoCAD Drawing of Reference PCB Design**

