

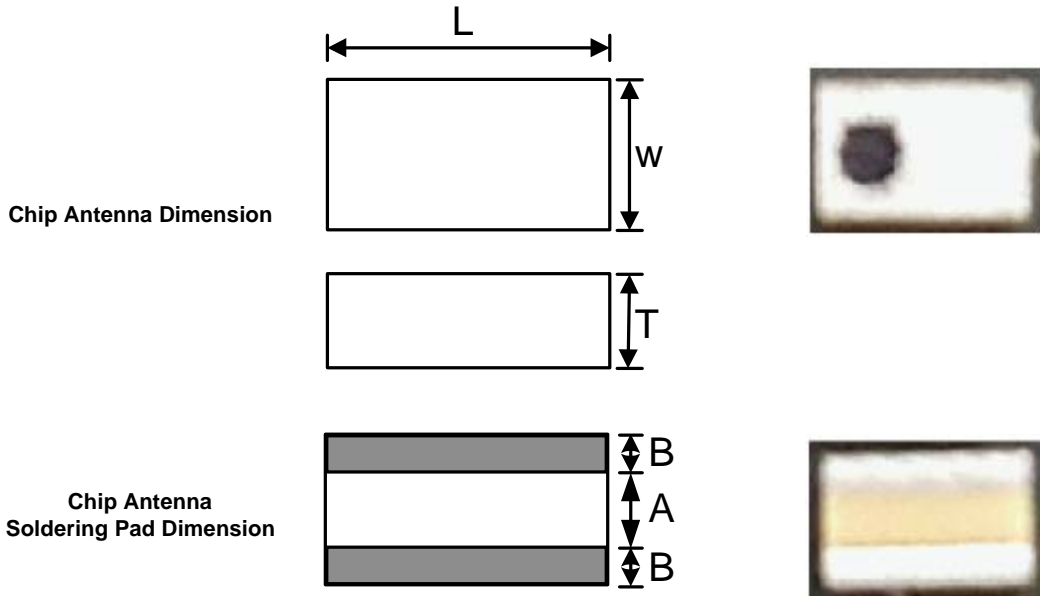
Dielectric Chip Antenna



■ P/N : DSBTPTR2010

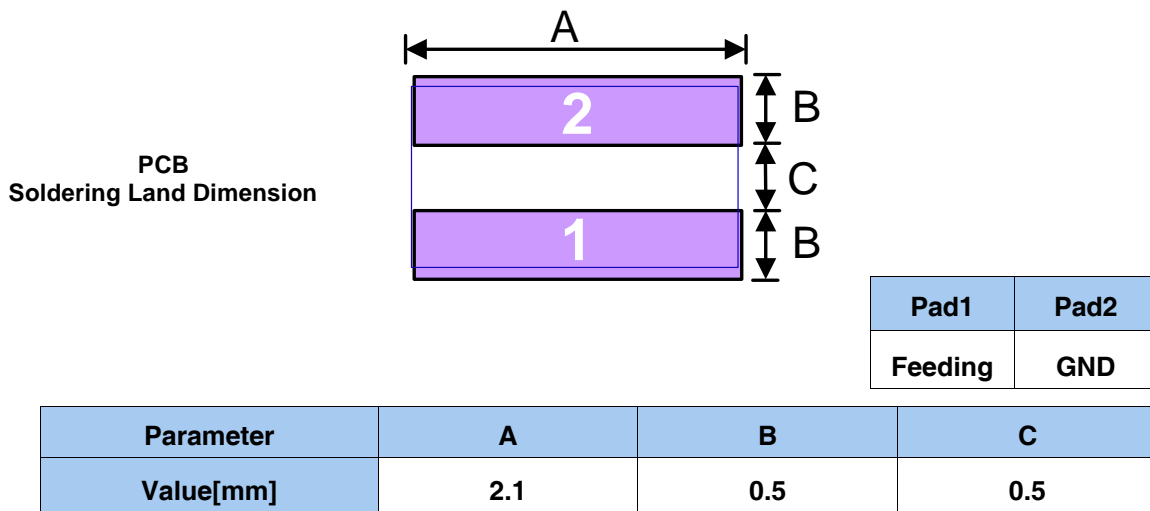
This specification covers the dielectric chip antenna DSBTPTR2010 used in Bluetooth.

■ Antenna Dimension (unit : mm, tolerance : ± 0.05)



Parameter	L	W	T	A	B
Value[mm]	2.0	1.2	1.0	0.6	0.3

■ Reference PCB Land Pad

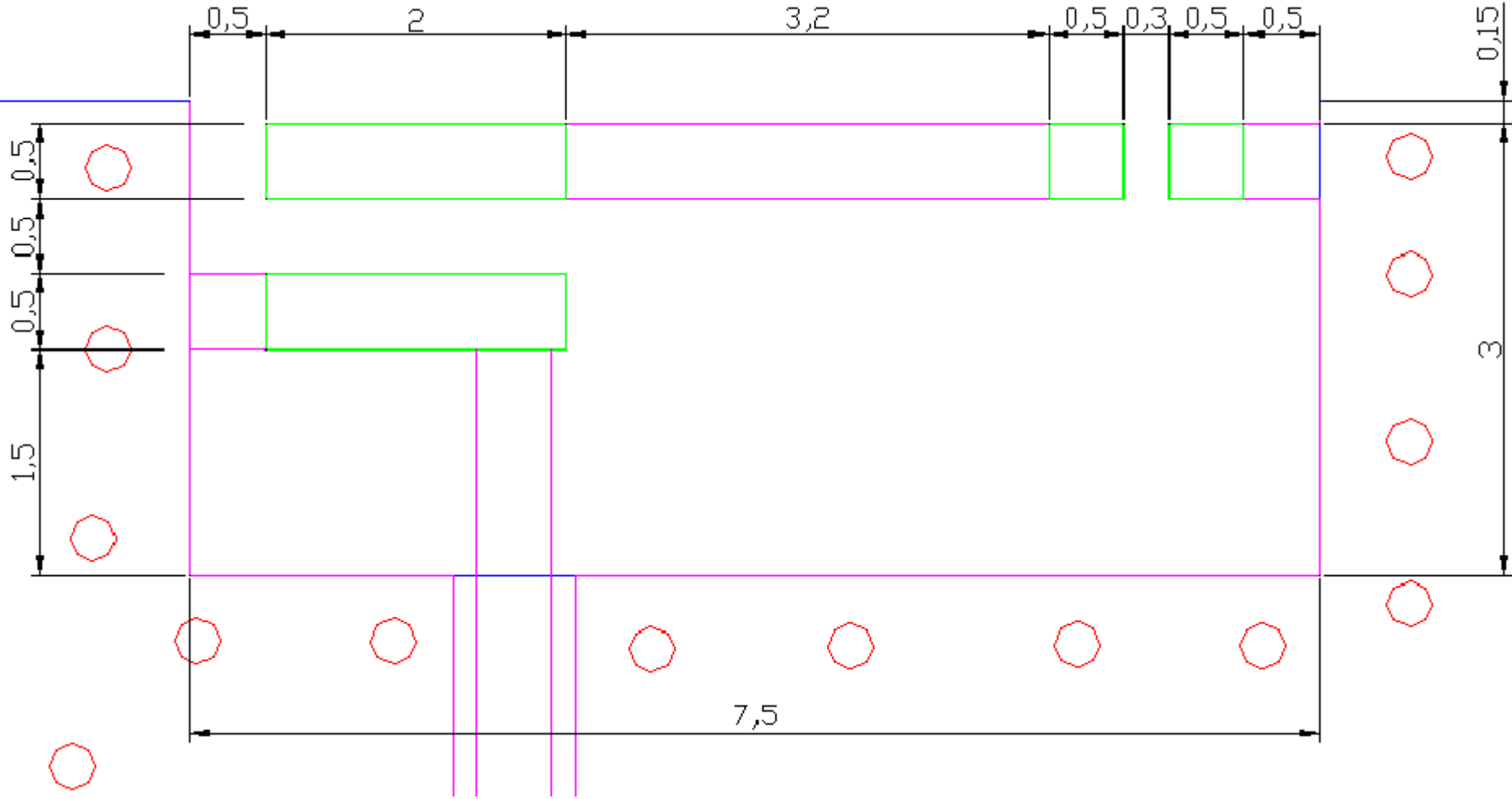


Unless Specified tolerances are ± 0.05 mm

Dielectric Chip Antenna



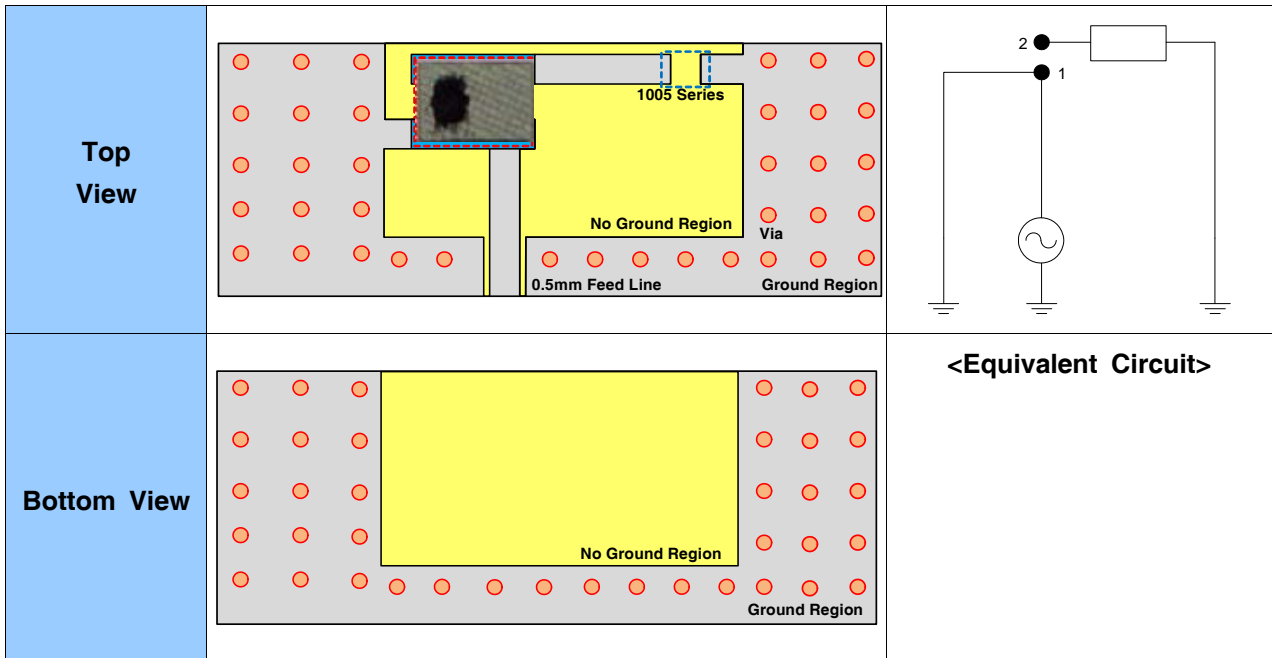
AutoCAD Drawing of Reference PCB Design



Dielectric Chip Antenna



PCB Drawing



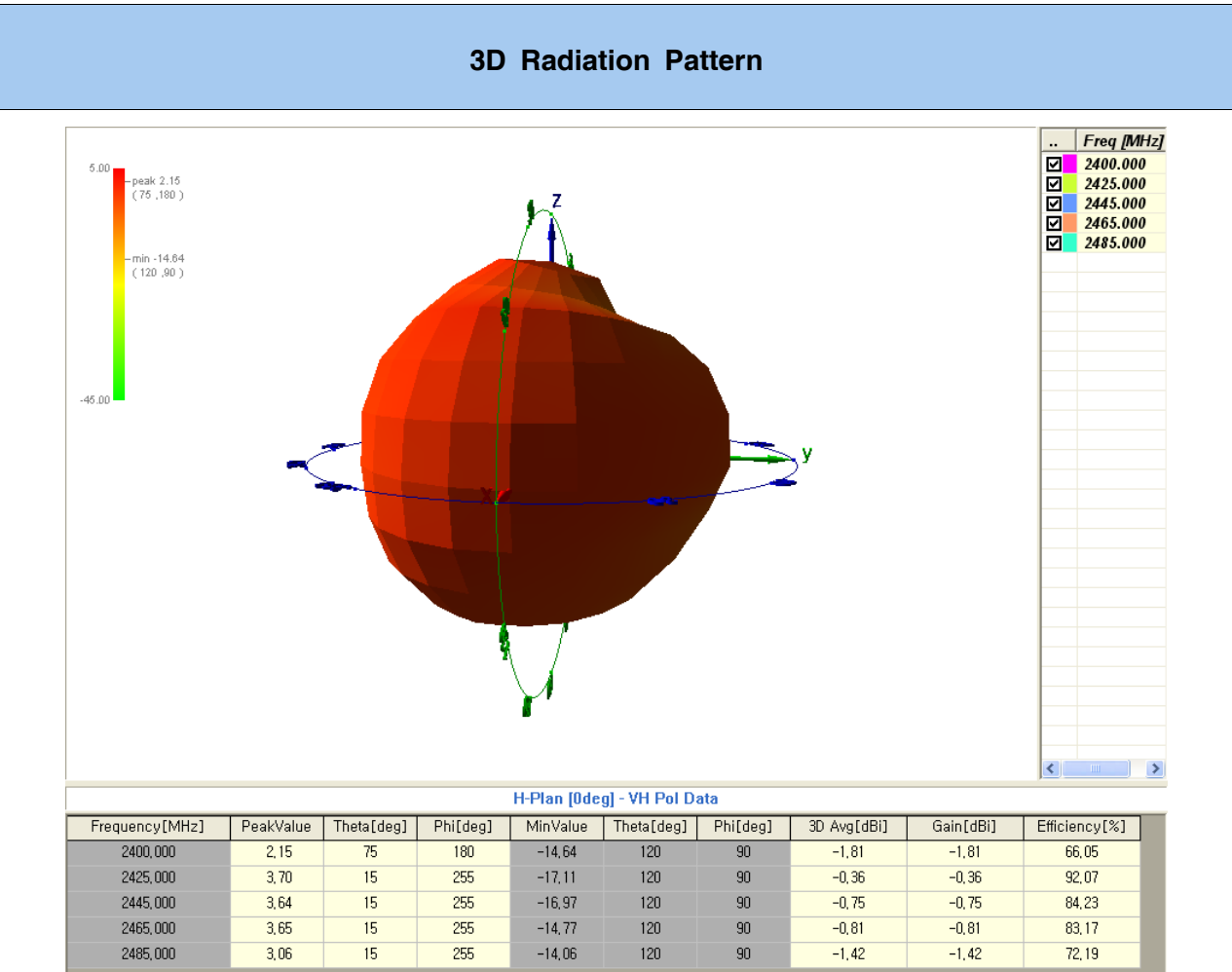
Matching Value

Band (MHz)	Matching Value (Default)
<p>Bluetooth / (2400 ~ 2485)</p>	

Electrical Characteristics (3D)

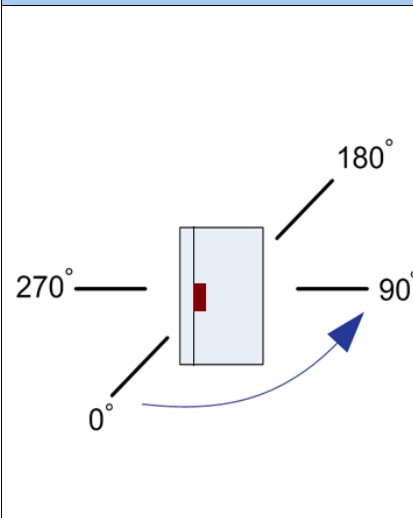
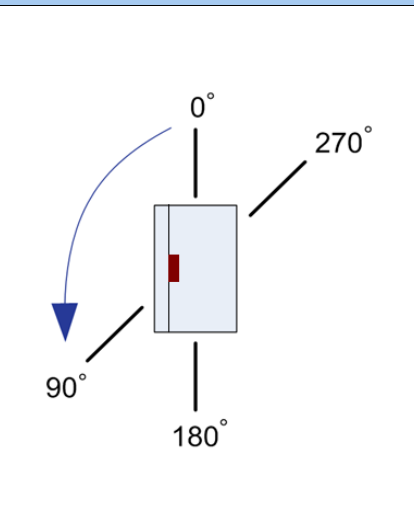
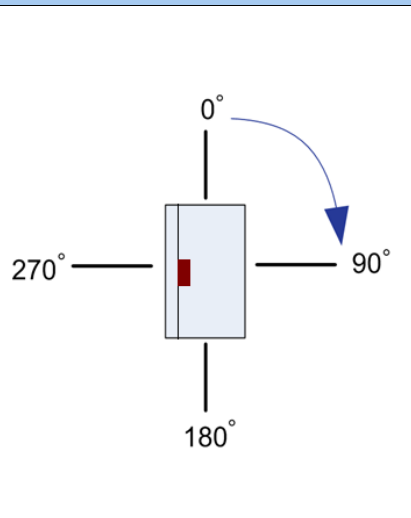
SWR & Smith chart	3D	Peak [dBi]	Average [dBi]	Efficiency [%]
	2400MHz	2.15	-1.81	66.05
	2425MHz	3.70	-0.36	92.07
	2445MHz	3.64	-0.75	84.23
	2465MHz	3.65	-0.81	83.17
	2485MHz	3.06	-1.42	72.19

Radiation Pattern (3D)



■ Electrical Characteristics (2D)

2D Measurement				
Gain	Azimuth	Theta	Peak	1.81
			Average	0.08
		Phi	Peak	-9.76
			Average	-12.64
	Elevation 1	Theta	Peak	2.18
			Average	-2.68
		Phi	Peak	3.50
			Average	-1.60
	Elevation 2	Theta	Peak	-13.75
			Average	-18.88
		Phi	Peak	3.60
			Average	-0.73

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

Dielectric Chip Antenna



Radiation Pattern (2D)

