

## Original Design Chip Antenna Data Sheet

- P/N : SDBTPTR3015 -

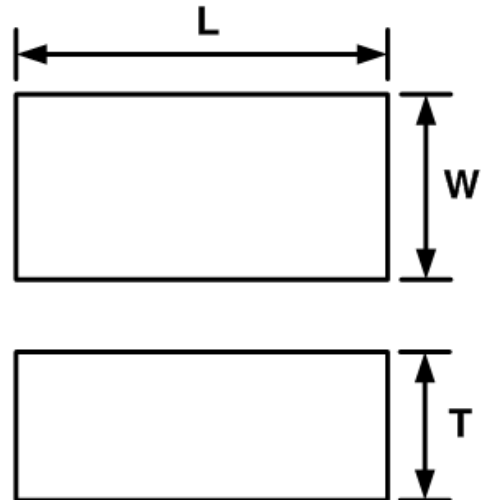
| - Application Frequency |                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------|
|                         | Band[MHz]                                                                            |
| Bluetooth               | 2400 ~ 2485                                                                          |
| WiFi / Zigbee           | 2400 ~ 2485                                                                          |
| S-DMB                   | 2630 ~ 2655                                                                          |
| Wibro                   | 2300 ~ 2390<br>band1 : 2300 ~ 2327<br>band2 : 2331.5 ~ 2358.5<br>bnad3 : 2363 ~ 2390 |

# Dielectric Chip Antenna

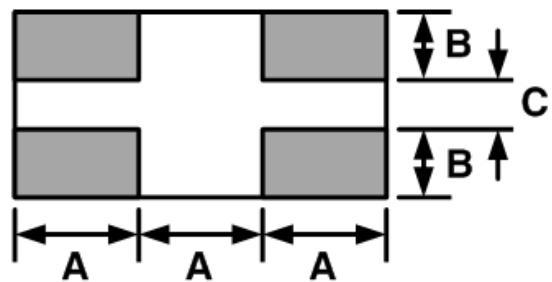


## ■ SDBTPTR3015 Dimension

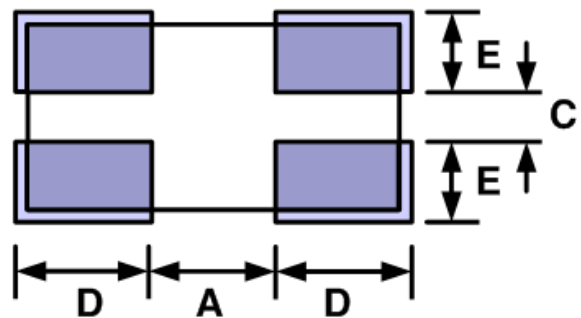
Chip Antenna Dimension



Chip Antenna  
Soldering Pad Dimension



PCB  
Soldering Land Dimension

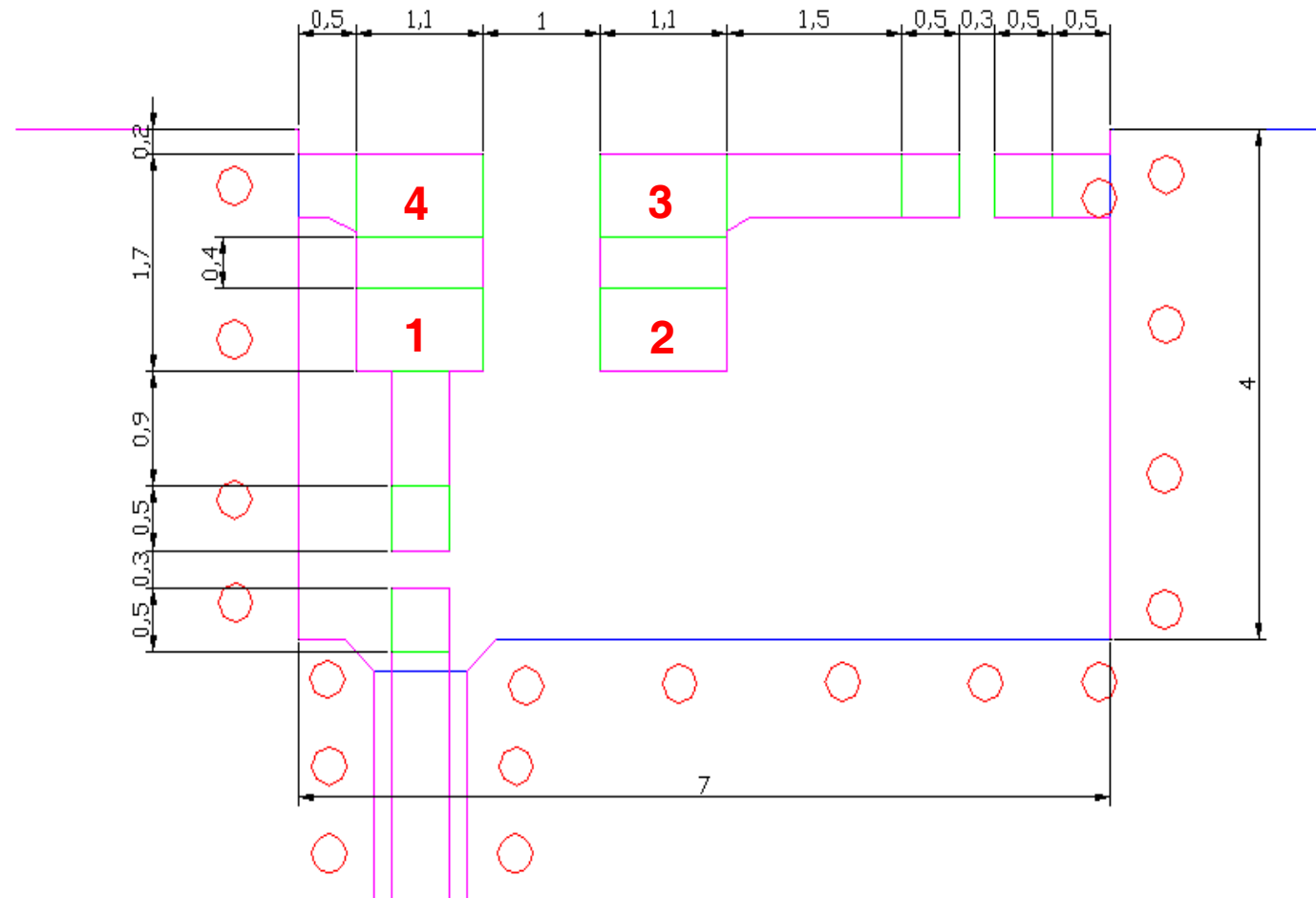


| Parameter | L            | W            | T            | A   | B    | C   | D   | E    |
|-----------|--------------|--------------|--------------|-----|------|-----|-----|------|
| Value[mm] | 3.0<br>± 0.1 | 1.5<br>± 0.1 | 1.2<br>± 0.1 | 1.0 | 0.55 | 0.4 | 1.1 | 0.65 |

Unless Specified tolerances are  $\pm 0.05$  mm

# Dielectric Chip Antenna

## ■ AutoCAD Drawing of Reference PCB Design for SDBTPTR3015 Product



# Dielectric Chip Antenna



## PCB Drawing

|             |                      |  |                      |
|-------------|----------------------|--|----------------------|
| Top View    | Case #1<br><Default> |  |                      |
|             | Case #2              |  |                      |
|             | Case #3              |  |                      |
|             | Case #4              |  |                      |
| Bottom View |                      |  | <Equivalent Circuit> |

# Dielectric Chip Antenna



## ■ Matching Value

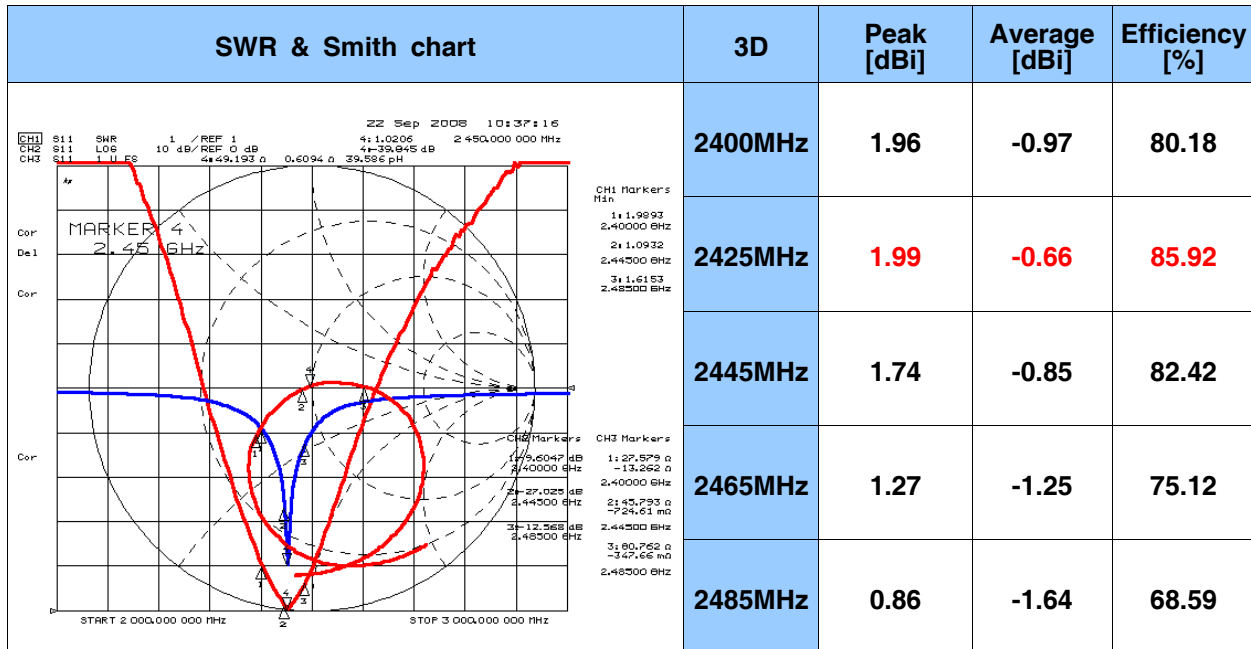
| Band (MHz)                                                                                                             | Matching Value (Default) |
|------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>Bluetooth /</b><br><b>WiFi /</b><br><b>Zigbee</b><br><b>(2400 ~ 2485)</b>                                           |                          |
| <b>S-DMB</b><br><b>(2630 ~ 2655)</b>                                                                                   |                          |
| <b>Wibro</b><br><b>(2300 ~ 2390)</b><br><b>band1:2300~2327</b><br><b>band2:2331.5~2358.5</b><br><b>band3:2363~2390</b> |                          |

# Dielectric Chip Antenna

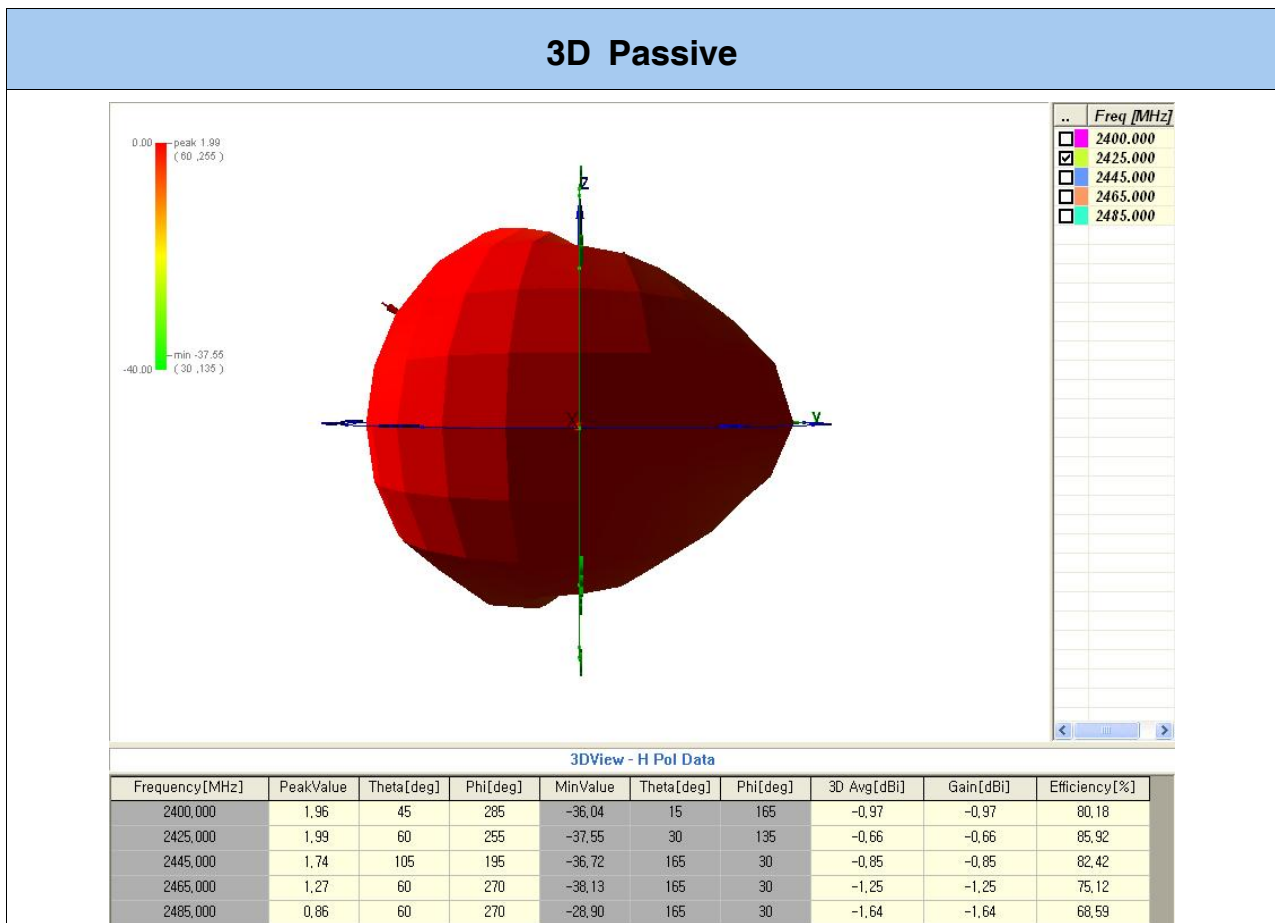


- 3D Passive Gain For Bluetooth / WiFi / Zigbee

■ Test Result for Ver 0.0



■ Radiation Pattern Ver 0.0

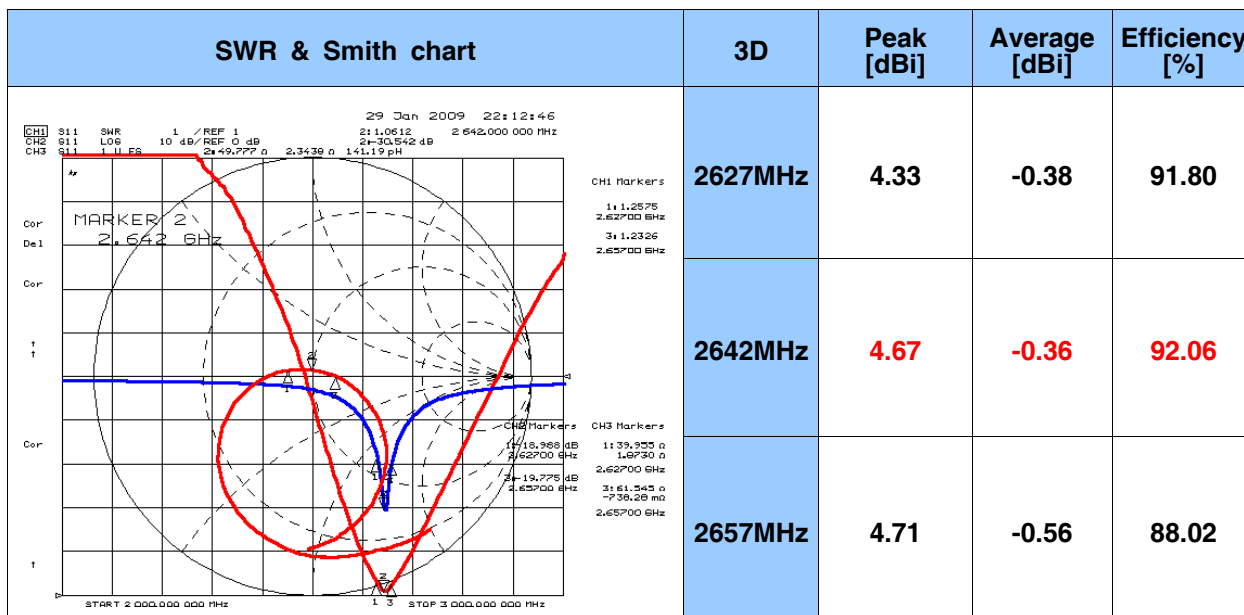


# Dielectric Chip Antenna

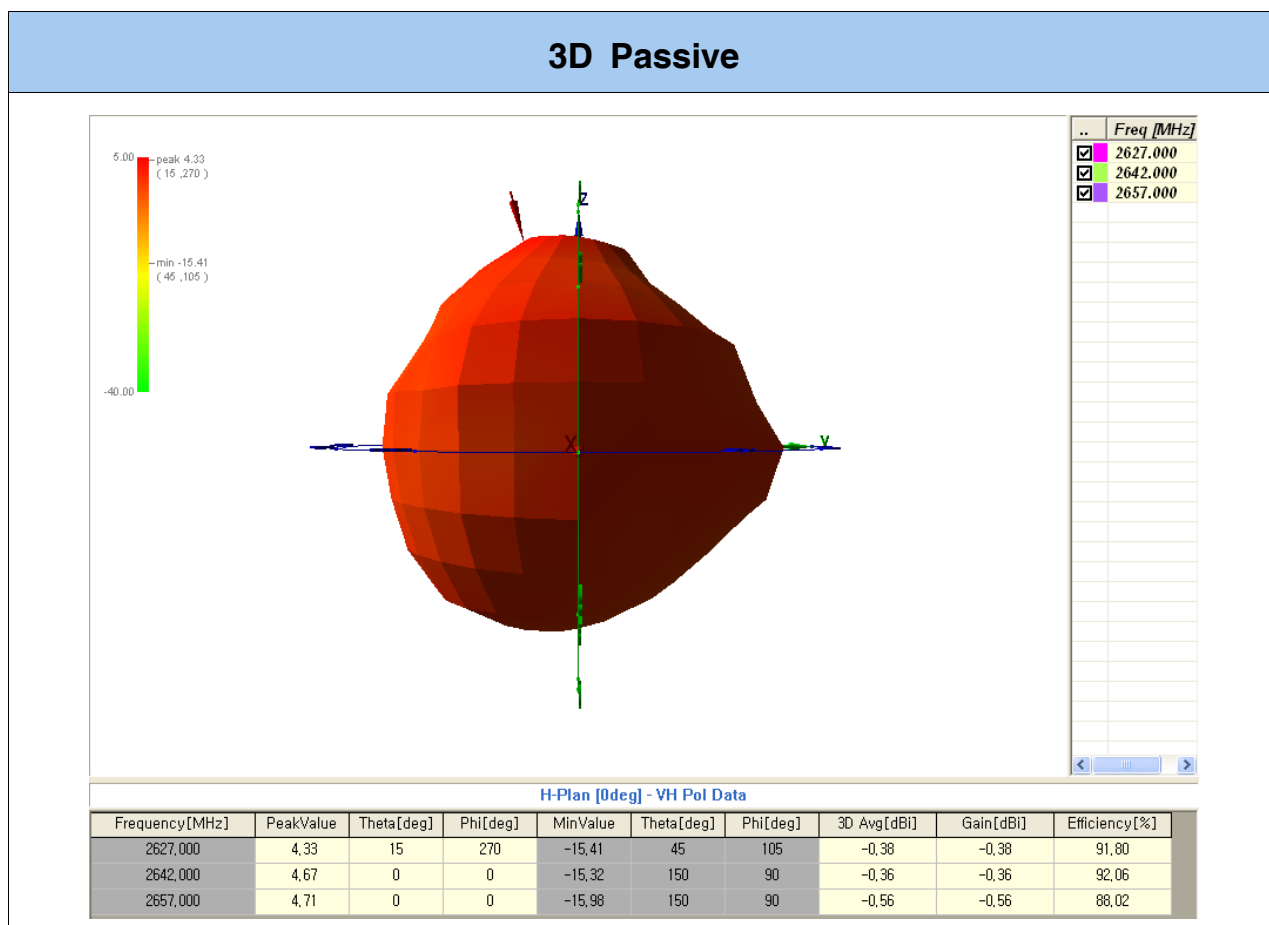


## - 3D Passive Gain For S-DMB

### Test Result for Ver 0.0



### Radiation Pattern Ver 0.0

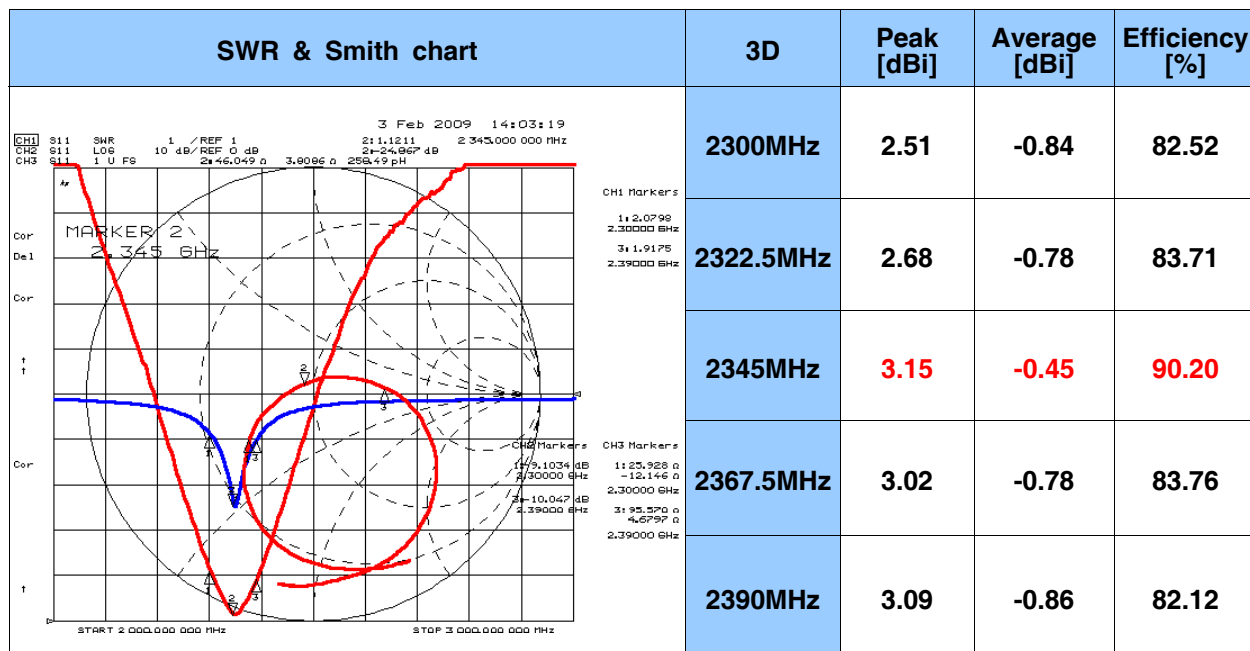


# Dielectric Chip Antenna



## - 3D Passive Gain For Wibro

### ■ Test Result for Ver 0.0



### ■ Radiation Pattern Ver 0.0

