

Original Design Chip Antenna Data Sheet

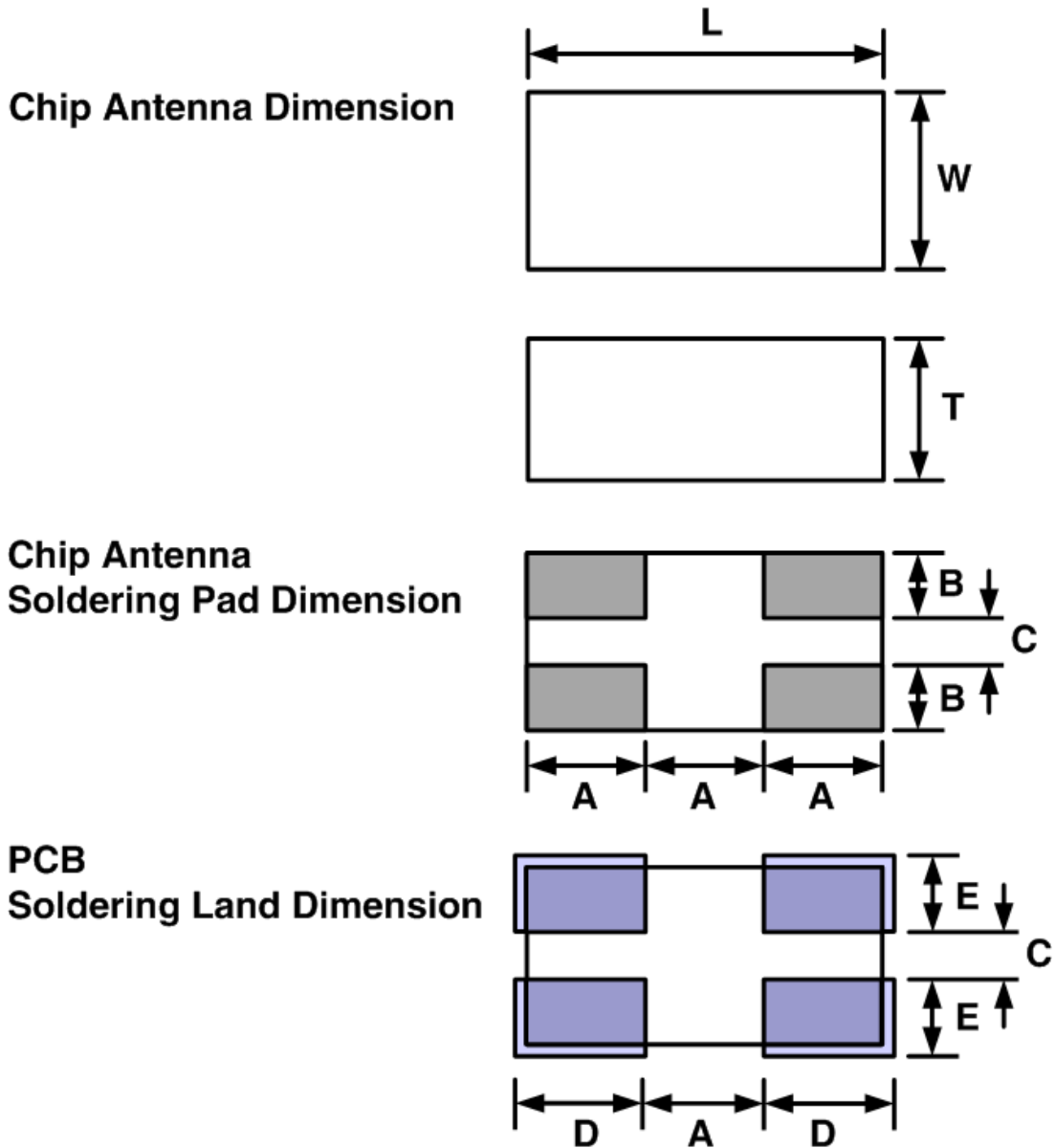
- P/N : SDBTPTR3015 -

| - Application Frequency | |
|--------------------------------|--|
| | Band[MHz] |
| Bluetooth | 2400 ~ 2485 |
| WiFi / Zigbee | 2400 ~ 2485 |
| S-DMB | 2630 ~ 2655 |
| Wibro | 2300 ~ 2390 band1 : 2300 ~ 2327 band2 : 2331.5 ~ 2358.5 band3 : 2363 ~ 2390 |

Dielectric Chip Antenna



■ SDBTPTR3015 Dimension

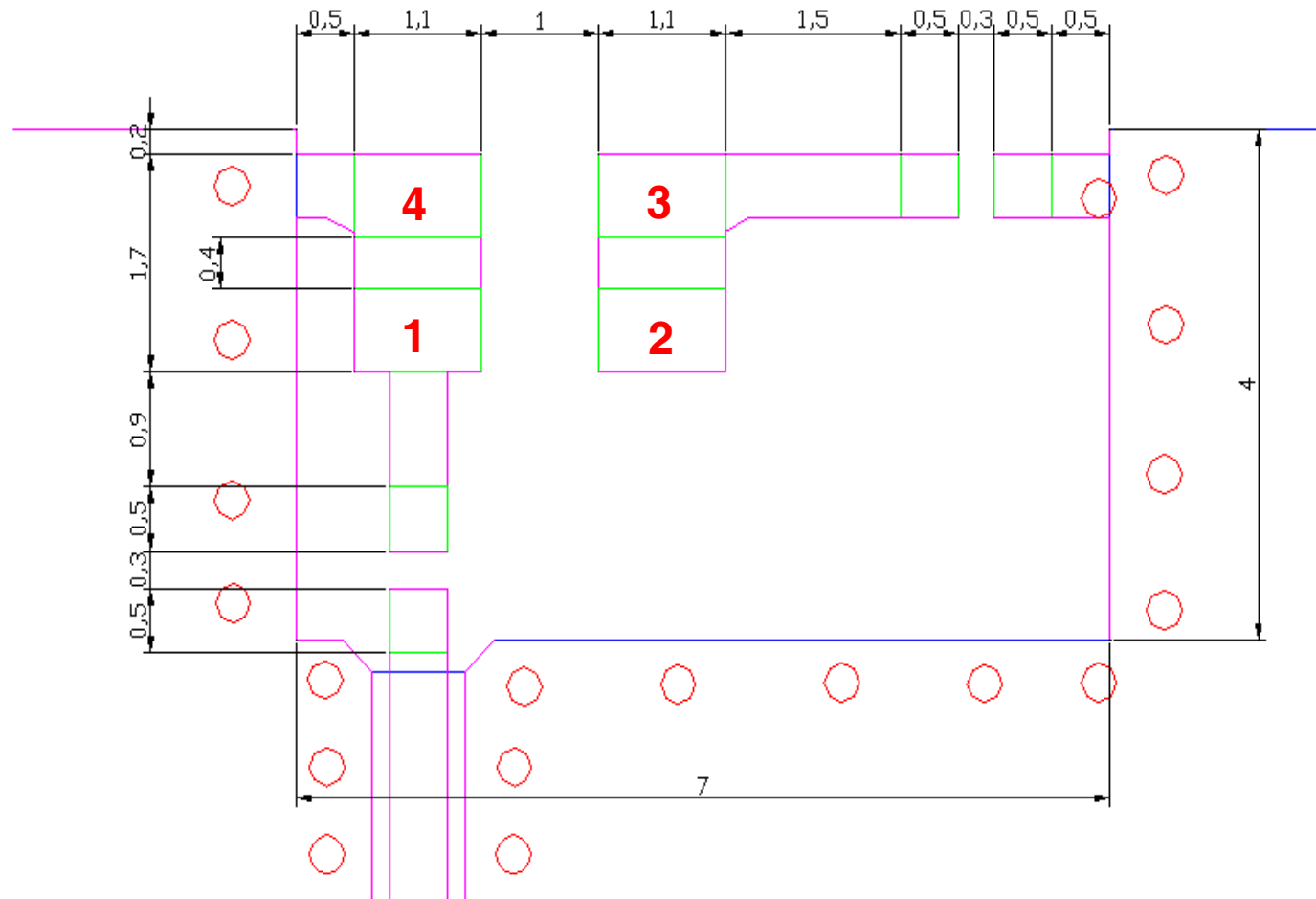


| Parameter | L | W | T | A | B | C | D | E |
|-----------|--------------|--------------|--------------|-----|------|-----|-----|------|
| Value[mm] | 3.0 ± 0.1 | 1.5 ± 0.1 | 1.2 ± 0.1 | 1.0 | 0.55 | 0.4 | 1.1 | 0.65 |

Unless Specified tolerances are ± 0.05 mm

Dielectric Chip Antenna

■ AutoCAD Drawing of Reference PCB Design for SDBTPTR3015 Product



Dielectric Chip Antenna



PCB Drawing

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

Dielectric Chip Antenna



■ Matching Value

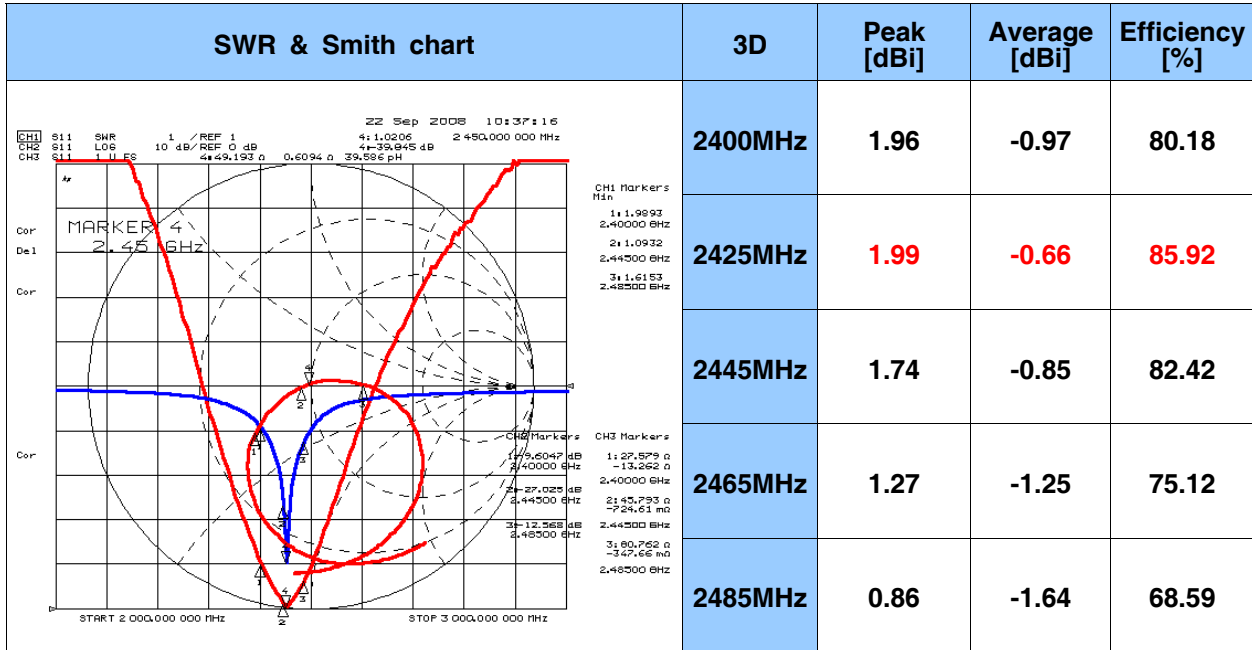
| Band (MHz) | Matching Value (Default) |
|--|--------------------------|
| <p>Bluetooth / WiFi / Zigbee (2400 ~ 2485)</p> | |
| <p>S-DMB (2630 ~ 2655)</p> | |
| <p>Wibro (2300 ~ 2390) band1:2300~2327 band2:2331.5~2358.5 band3:2363~2390</p> | |

Dielectric Chip Antenna

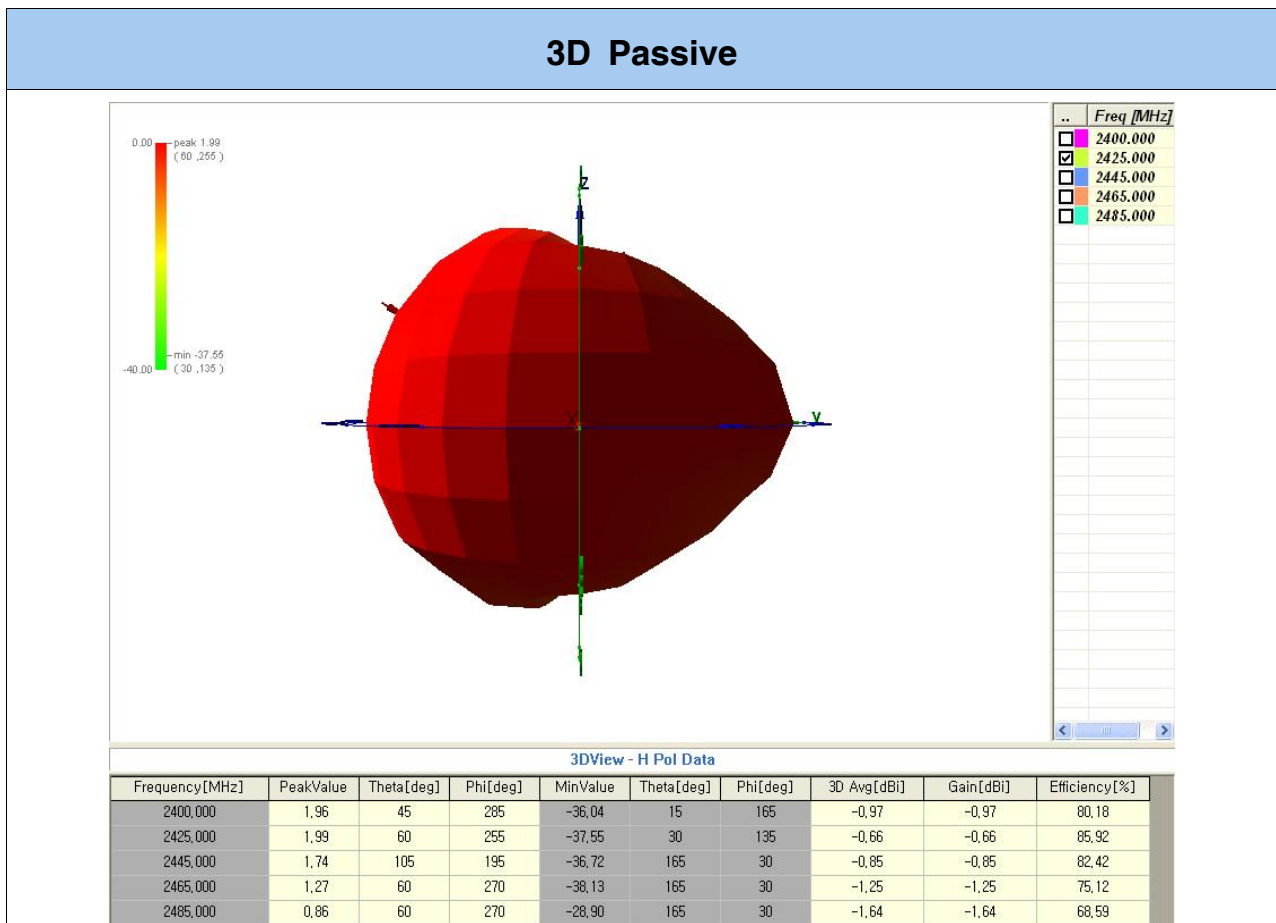


- 3D Passive Gain For Bluetooth / WiFi / Zigbee

■ Test Result for Ver 0.0



■ Radiation Pattern Ver 0.0



Dielectric Chip Antenna

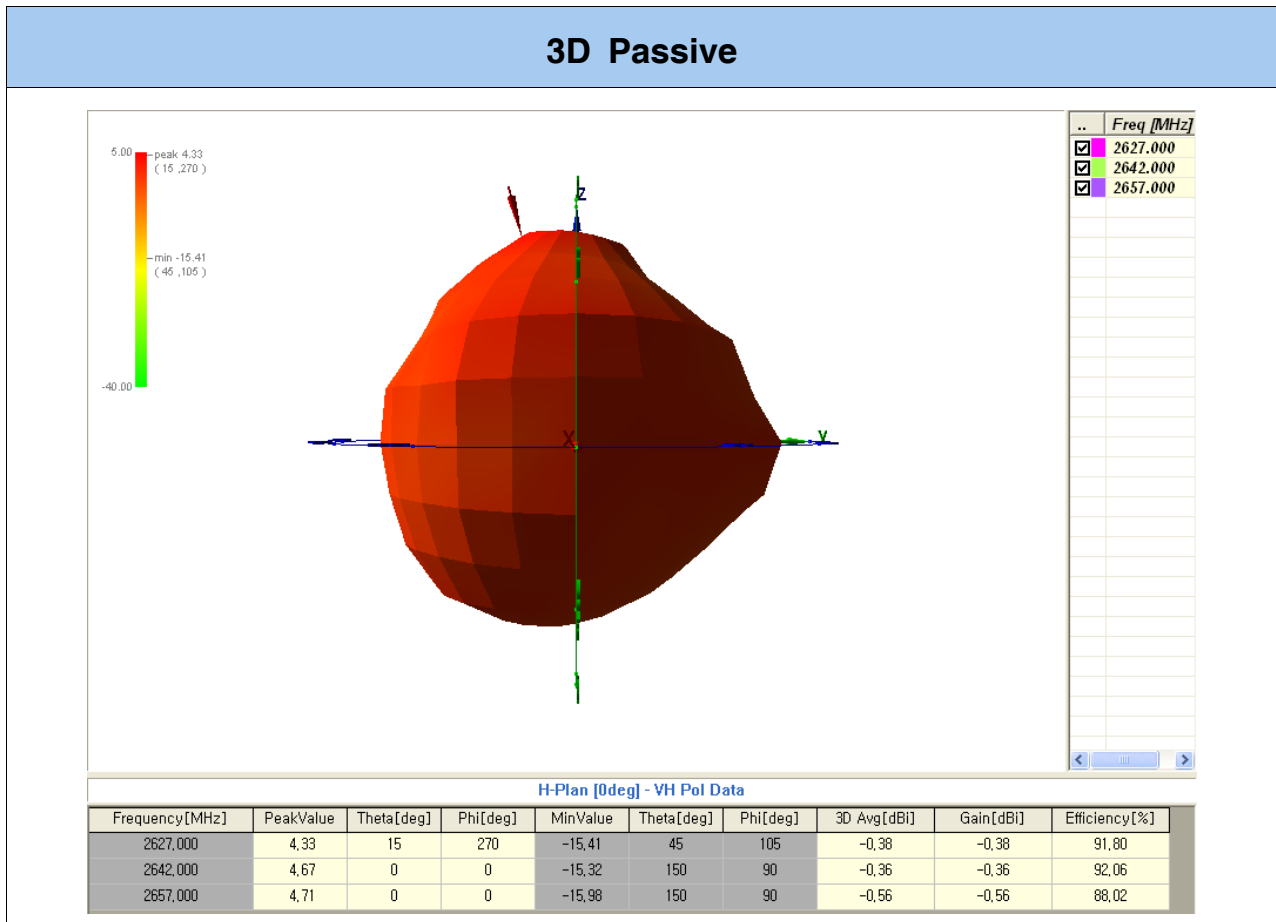


- 3D Passive Gain For S-DMB

■ Test Result for Ver 0.0

| SWR & Smith chart | 3D | Peak [dBi] | Average [dBi] | Efficiency [%] |
|-------------------|---------|------------|---------------|----------------|
| | 2627MHz | 4.33 | -0.38 | 91.80 |
| | 2642MHz | 4.67 | -0.36 | 92.06 |
| | 2657MHz | 4.71 | -0.56 | 88.02 |

■ Radiation Pattern Ver 0.0

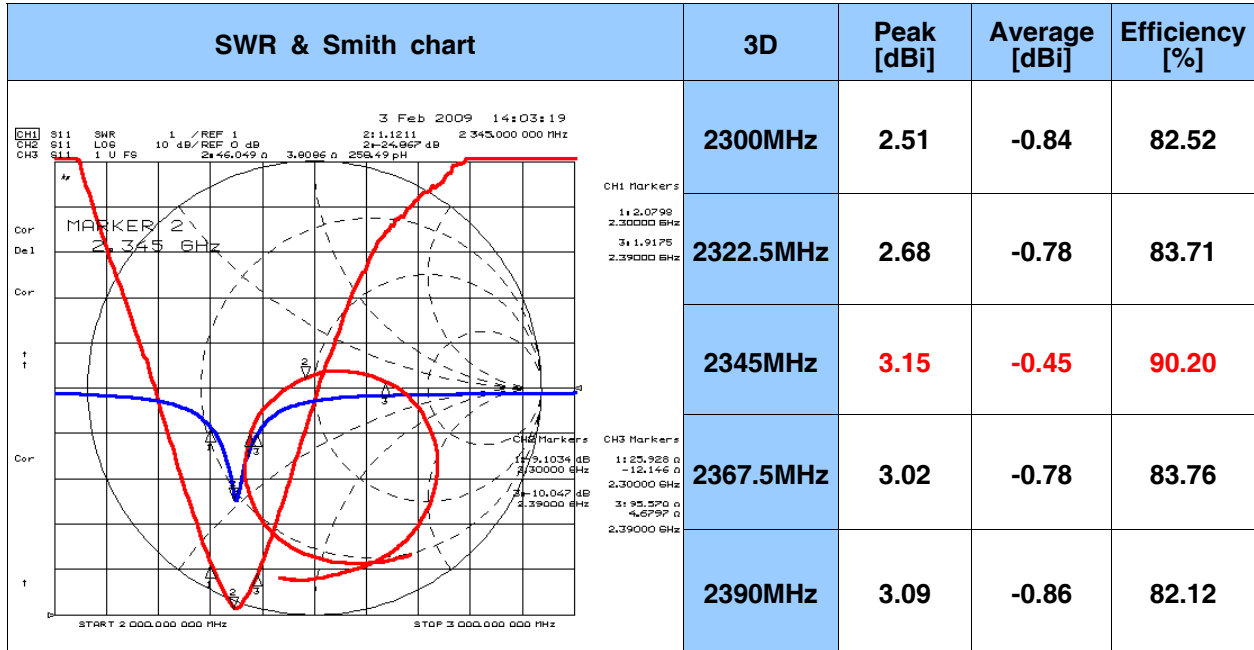


Dielectric Chip Antenna



- 3D Passive Gain For Wibro

■ Test Result for Ver 0.0



■ Radiation Pattern Ver 0.0

