

Original Design Chip Antenna Data Sheet

- P/N : SDBTPTR3015 -

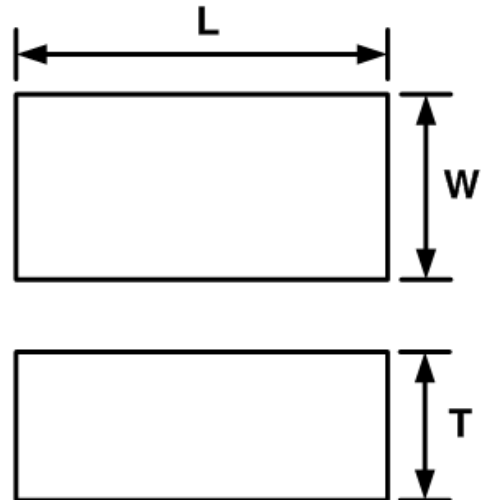
- Application Frequency	
	Band[MHz]
Bluetooth	2400 ~ 2485
WiFi / Zigbee	2400 ~ 2485
S-DMB	2630 ~ 2655
Wibro	2300 ~ 2390 band1 : 2300 ~ 2327 band2 : 2331.5 ~ 2358.5 bnad3 : 2363 ~ 2390

Dielectric Chip Antenna

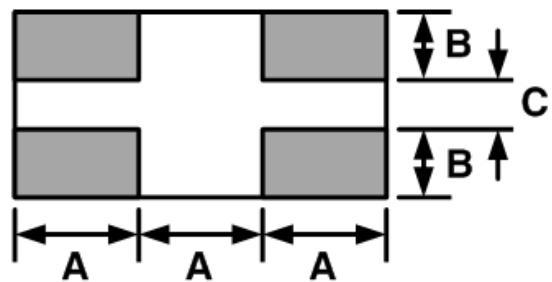


■ SDBTPTR3015 Dimension

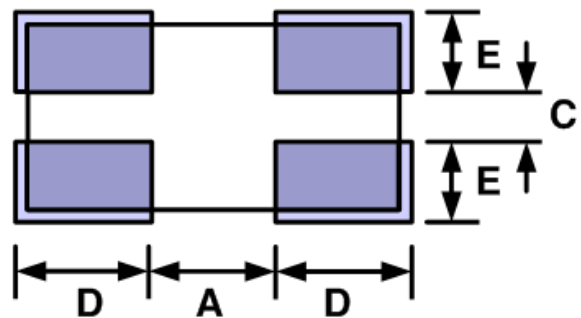
Chip Antenna Dimension



Chip Antenna
Soldering Pad Dimension



PCB
Soldering Land Dimension

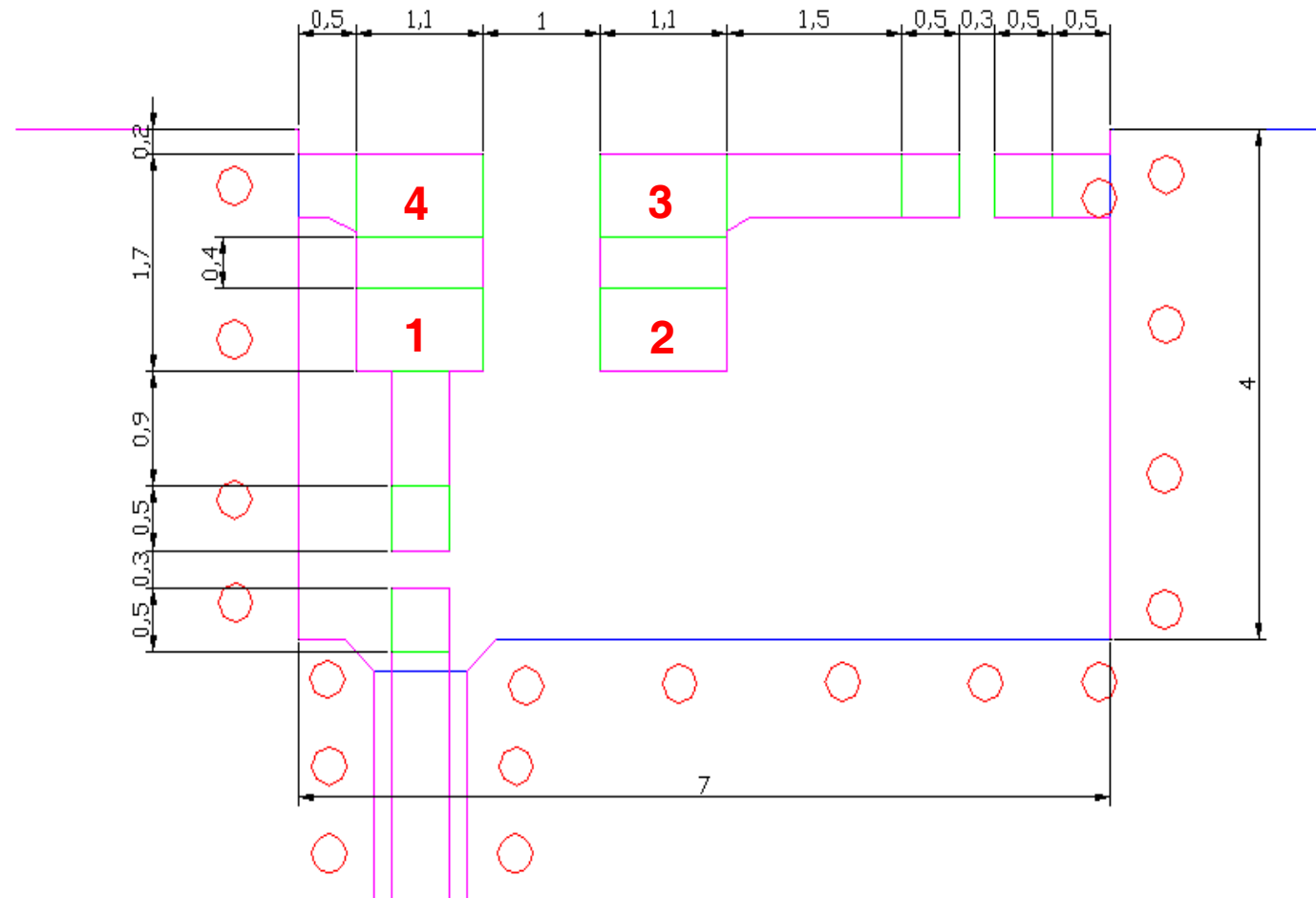


Parameter	L	W	T	A	B	C	D	E
Value[mm]	3.0 ± 0.1	1.5 ± 0.1	1.2 ± 0.1	1.0	0.55	0.4	1.1	0.65

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			<Equivalent Circuit>

Dielectric Chip Antenna



■ Matching Value

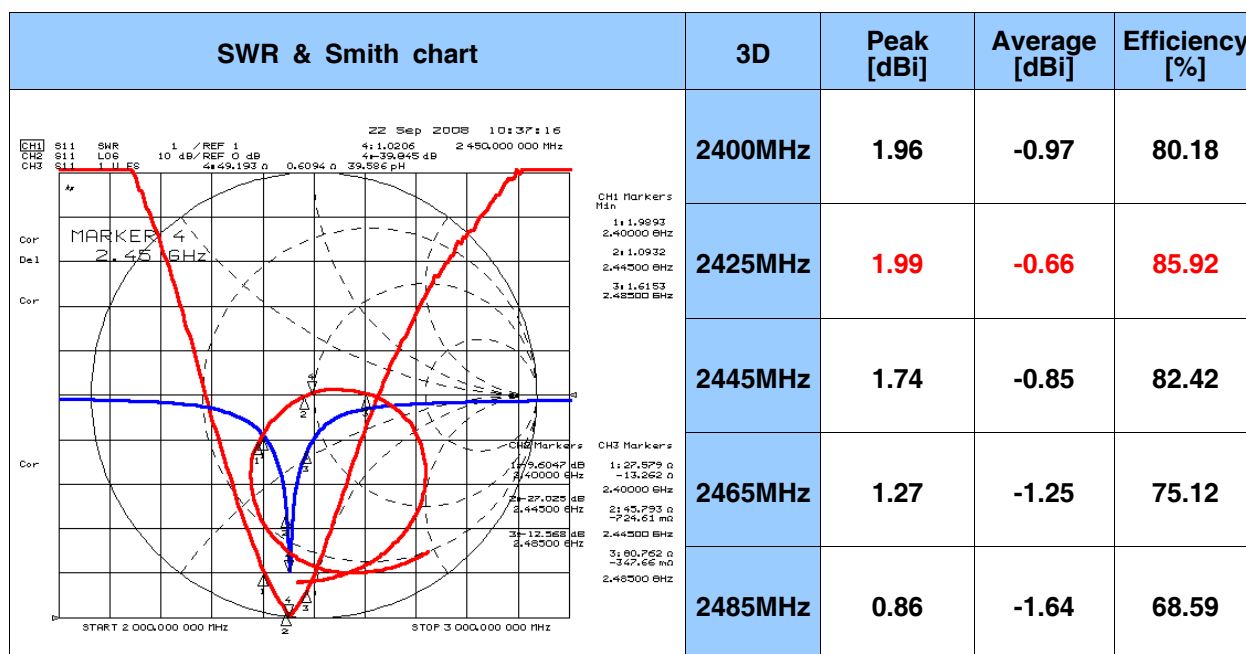
Band (MHz)	Matching Value (Default)
Bluetooth / WiFi / Zigbee (2400 ~ 2485)	
S-DMB (2630 ~ 2655)	
Wibro (2300 ~ 2390) band1:2300~2327 band2:2331.5~2358.5 band3:2363~2390	

Dielectric Chip Antenna

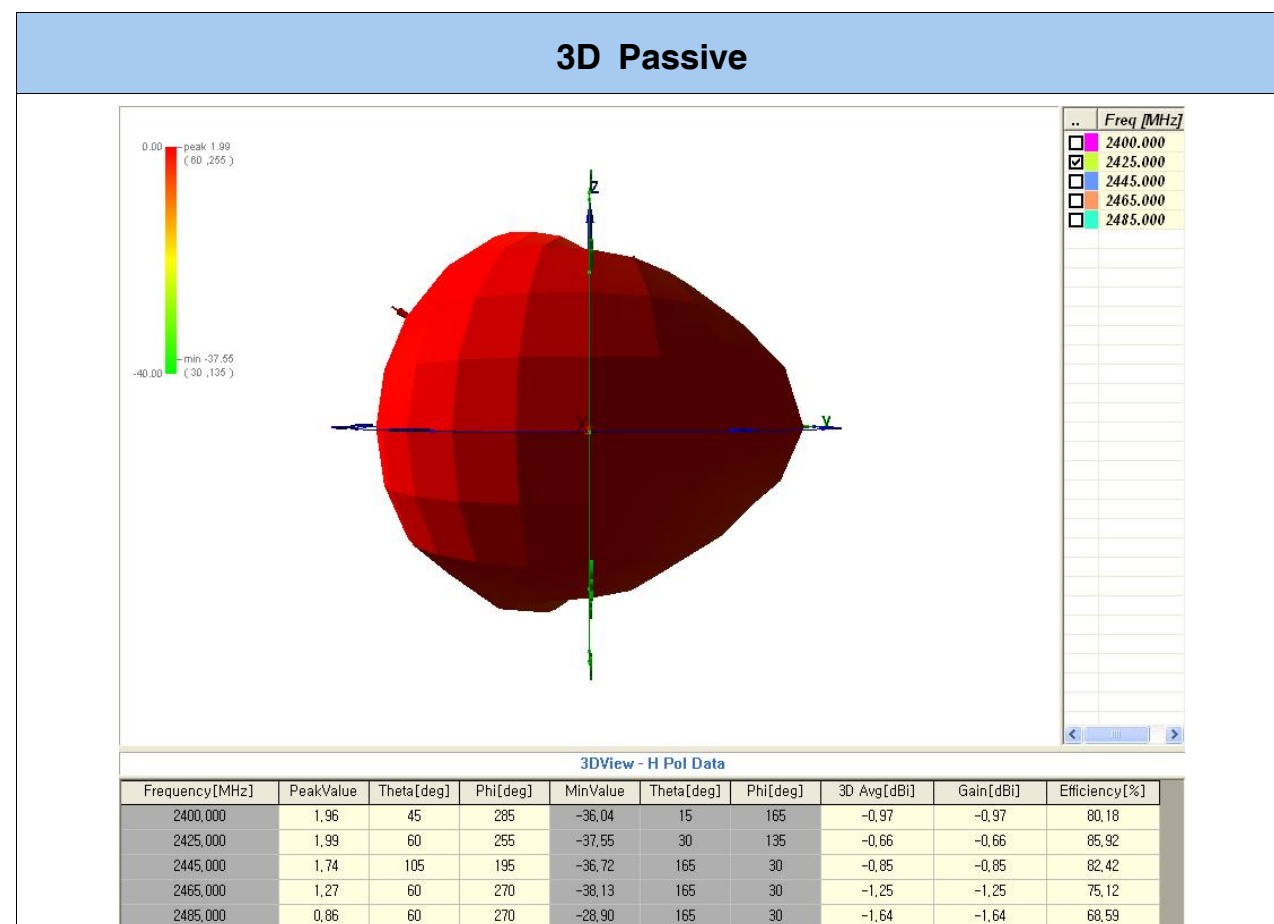


- 3D Passive Gain For Bluetooth / WiFi / Zigbee

Test Result for Ver 0.0



Radiation Pattern Ver 0.0

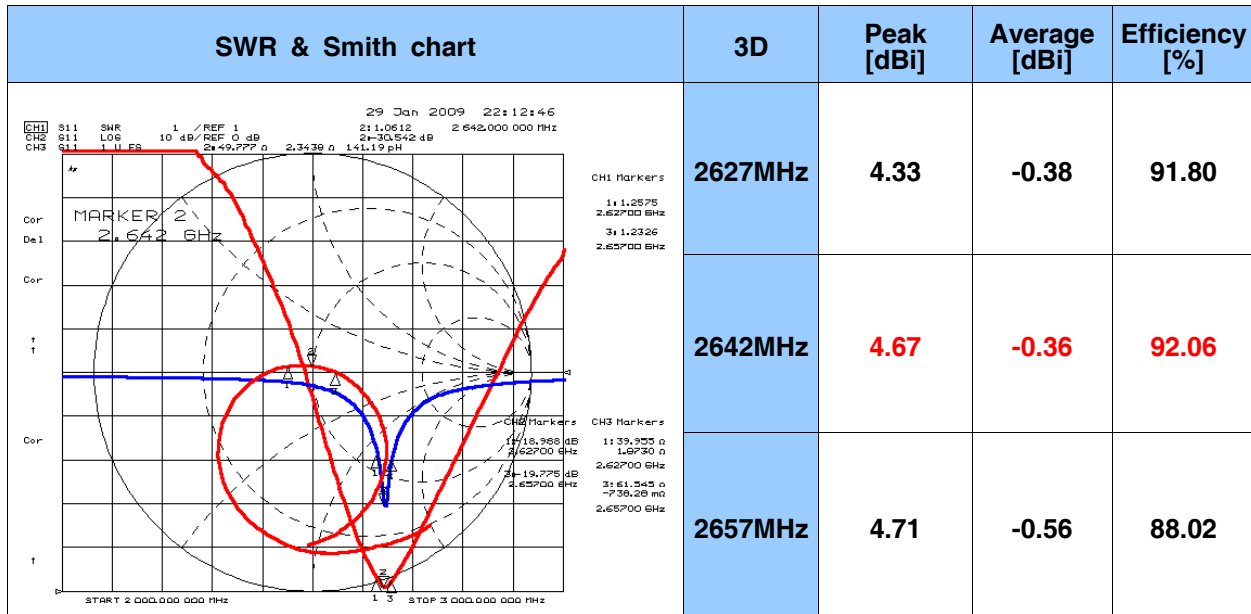


Dielectric Chip Antenna

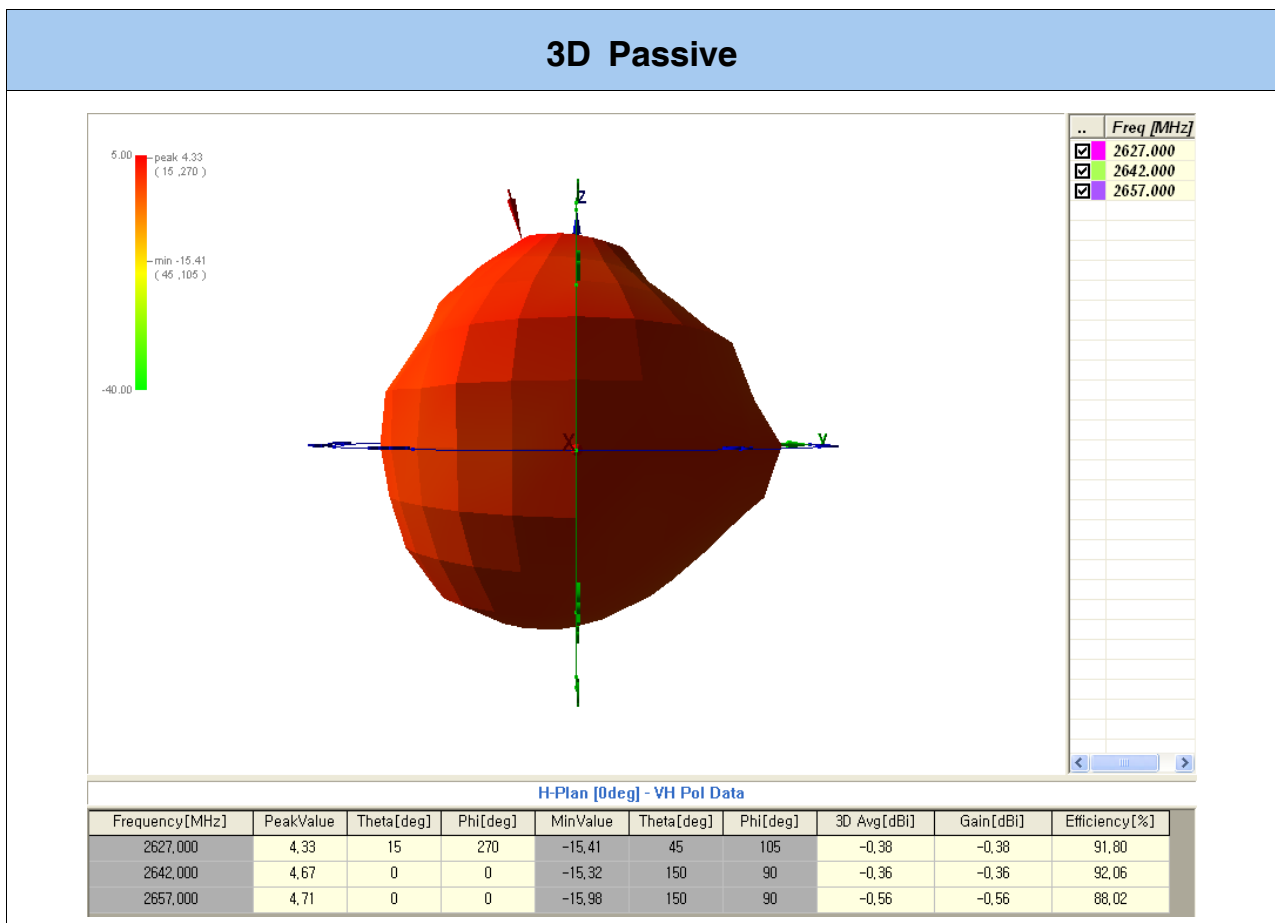


- 3D Passive Gain For S-DMB

■ Test Result for Ver 0.0



■ Radiation Pattern Ver 0.0

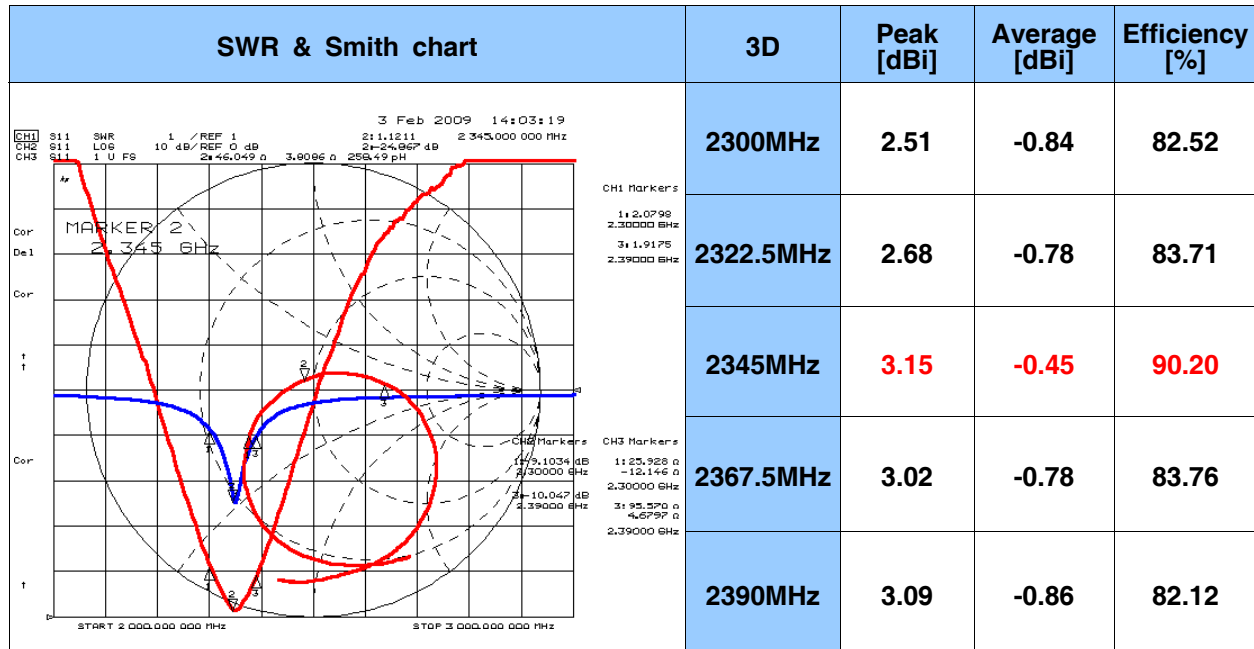


Dielectric Chip Antenna

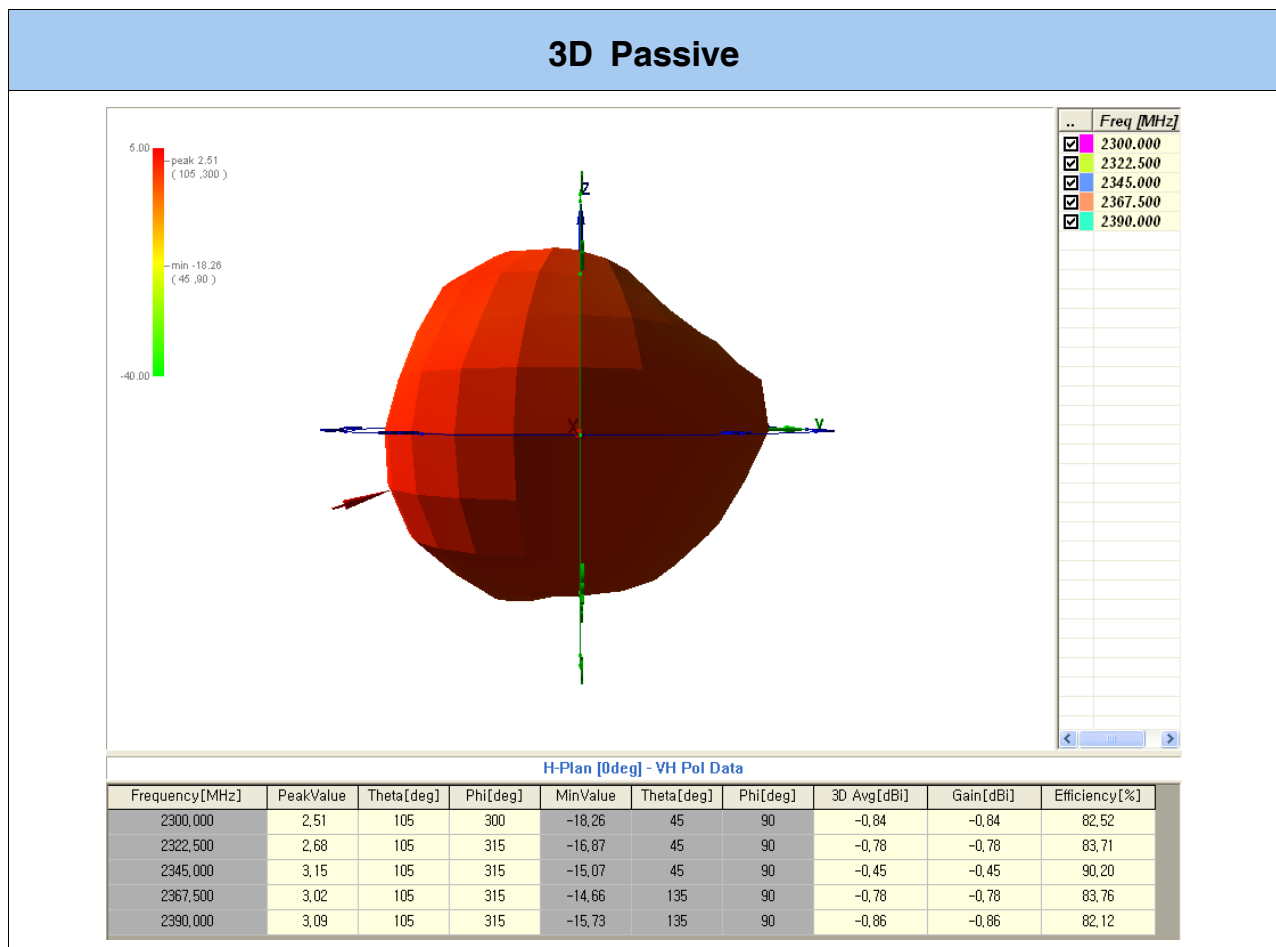


- 3D Passive Gain For Wibro

■ Test Result for Ver 0.0



■ Radiation Pattern Ver 0.0



Approval Specification

Products	Dielectric Chip Antenna
Customer	LG HE Company
Model	RF-Module BM-LDS401
Customer CODE	EAA62705201
Supplier	PARTRON
Supplier CODE	SDBTPTR3015



22-6, Seokwoo-dong, Hwaseong-si, Gyeonggi-do, 445-170, KOREA
Tel : 82-31-201-7870~6
Fax : 82-31-201-7800
www.partron.co.kr

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1. Manufacturer

Supplier	PARTRON
Supplier CODE	SDBTPTR3015

2. Model Name

Basic Model	LA111-BS - BT
Variation Model	RF-Module BM-LDS401

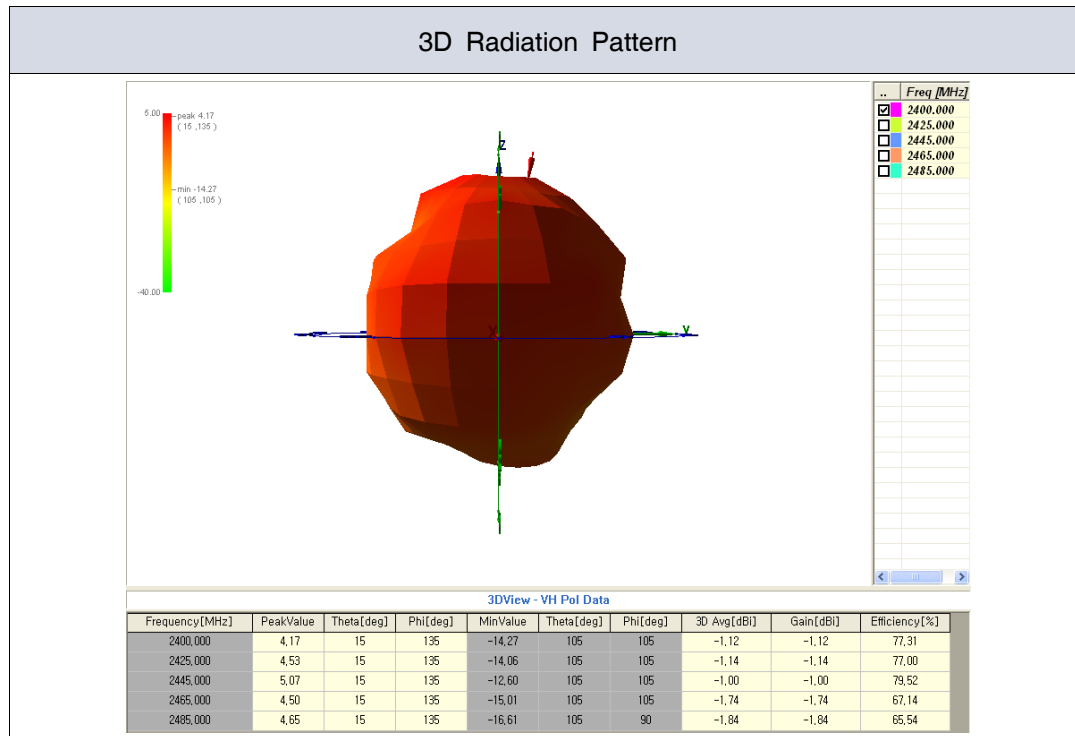
3. Antenna Type

- PIFA : Planar Inverted F Antenna

4. Electrical Performance Data
4.1 Specification Sheet

ITEM			SPEC
Antenna Performance			Bluetooth
Frequency Range [MHz]			2400 ~ 2485
Average Gain [dBi]	3D	Peak	5.07
		Average	-1.00

4.2 3D Radiation Pattern - BT Band



5. External Drawing

5.1 Antenna Pattern Dimension

