

DATA SHEETS

P/N : ABP3015A1



Bluetooth Chip Antenna

◆ P/N : ABP3015A1

➤ Features

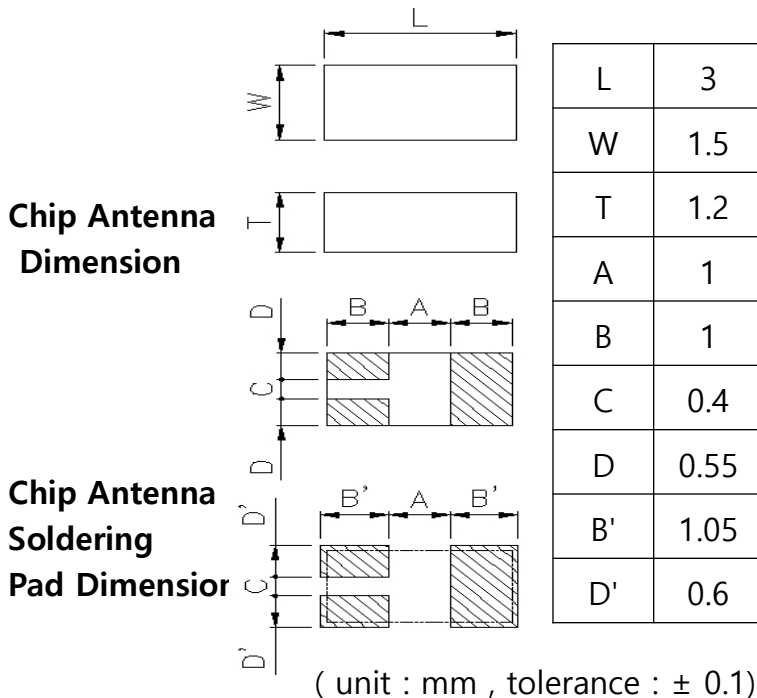
- ✓ These **ABP3015A1** is specially designed for Bluetooth.
- ✓ **High dielectric, Low loss** antenna was achieved by **new material**.
- ✓ By utilizing PCB assembly line, it can be mass produced at **low cost**

➤ Part Numbering(P/N)

A B P 3015 A 1
① ② ③ ④ ⑤ ⑥

- ① Product company : A- ARRO
- ② Application : B -Bluetooth
- ③ Antenna Type : P- PIFA
- ④ Chip antenna size : 3015 -3.0 x 1.5
- ⑤ Product thickness : A - 1.2 T
- ⑥ Revision number : 1 –first product

➤ Mechanical Dimension



Chip Antenna Real Product

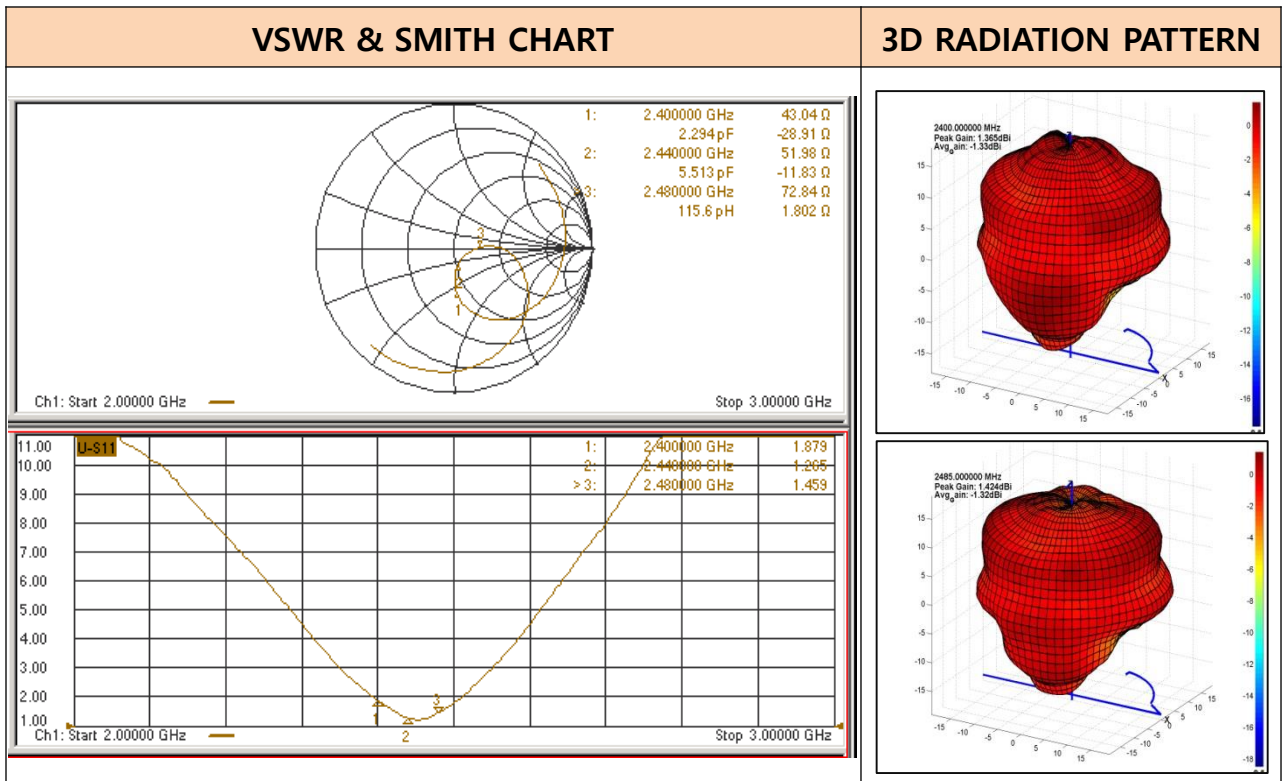


Bluetooth Chip Antenna

➤ Specification

Item		Specification				
Frequency range		2400~2483G				
VSWR		2 :1 under				
Polarinzation		Linear				
Radiation		Omni-directional				
Impedance		50Ω				
Frequency [MHz]		2400	2420	2440	2460	2480
Gain[dBi]	Peak	1.4	1.4	1.9	2.1	1.4
	Average	-1.3	-1.4	-1.0	-0.7	-1.3
Efficiency(%)		73.6	73.3	80.1	85.1	73.7

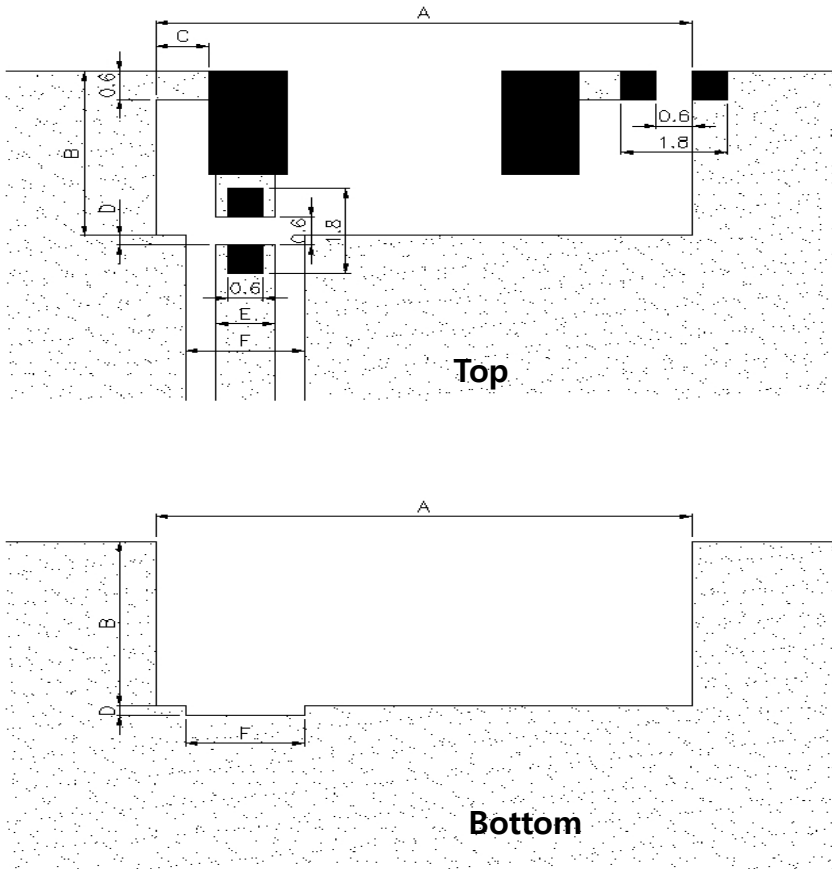
➤ Electrical Characteristics



Bluetooth Chip Antenna

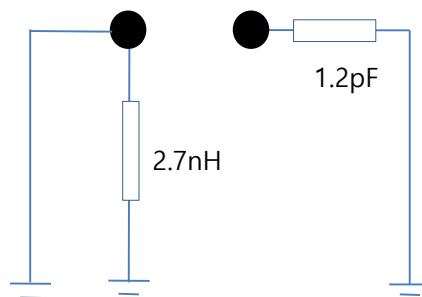
➤ Standard PCB Design & Matching Circuit

- ✓ **Standard PCB Design** (unit : mm , tolerance : ± 0.05)



A	7
B	4
C	0.9
D	0
E	0.6
F	1.6

- ✓ **Matching Circuit**



< Default Condition Equivalent Circuit >

DATA SHEETS

P/N : ABP3015A2



Bluetooth Chip Antenna

◆ P/N : ABP3015A2

➤ Features

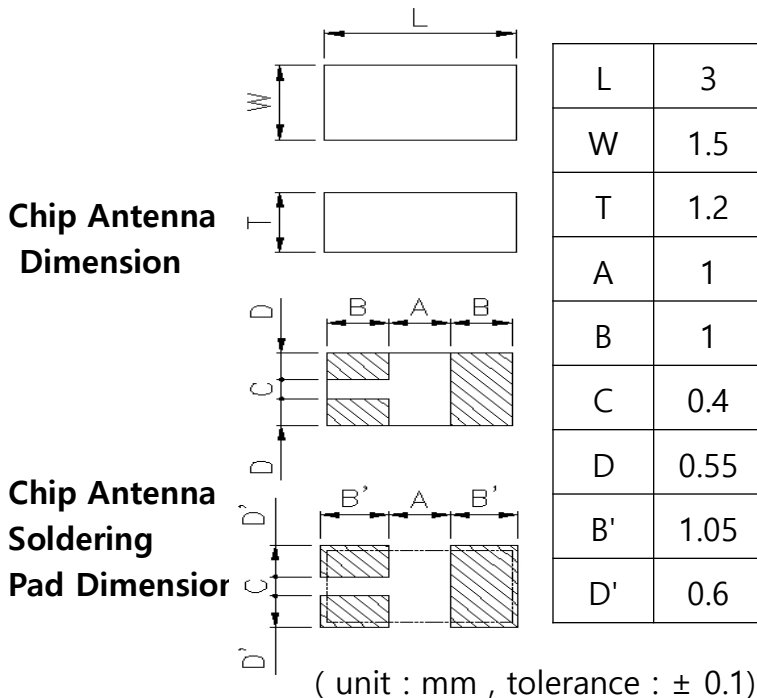
- ✓ These **ABP3015A2** is specially designed for Bluetooth.
- ✓ **High dielectric, Low loss** antenna was achieved by **new material**.
- ✓ By utilizing PCB assembly line, it can be mass produced at **low cost**

➤ Part Numbering(P/N)

A B P 3015 A 2
① ② ③ ④ ⑤ ⑥

- ① Product company : A- ARRO
- ② Application : B -Bluetooth
- ③ Antenna Type : P- PIFA
- ④ Chip antenna size : 3015 -3.0 x 1.5
- ⑤ Product thickness : A - 1.2 T
- ⑥ Revision number : 2 – second product

➤ Mechanical Dimension



Chip Antenna Real Product

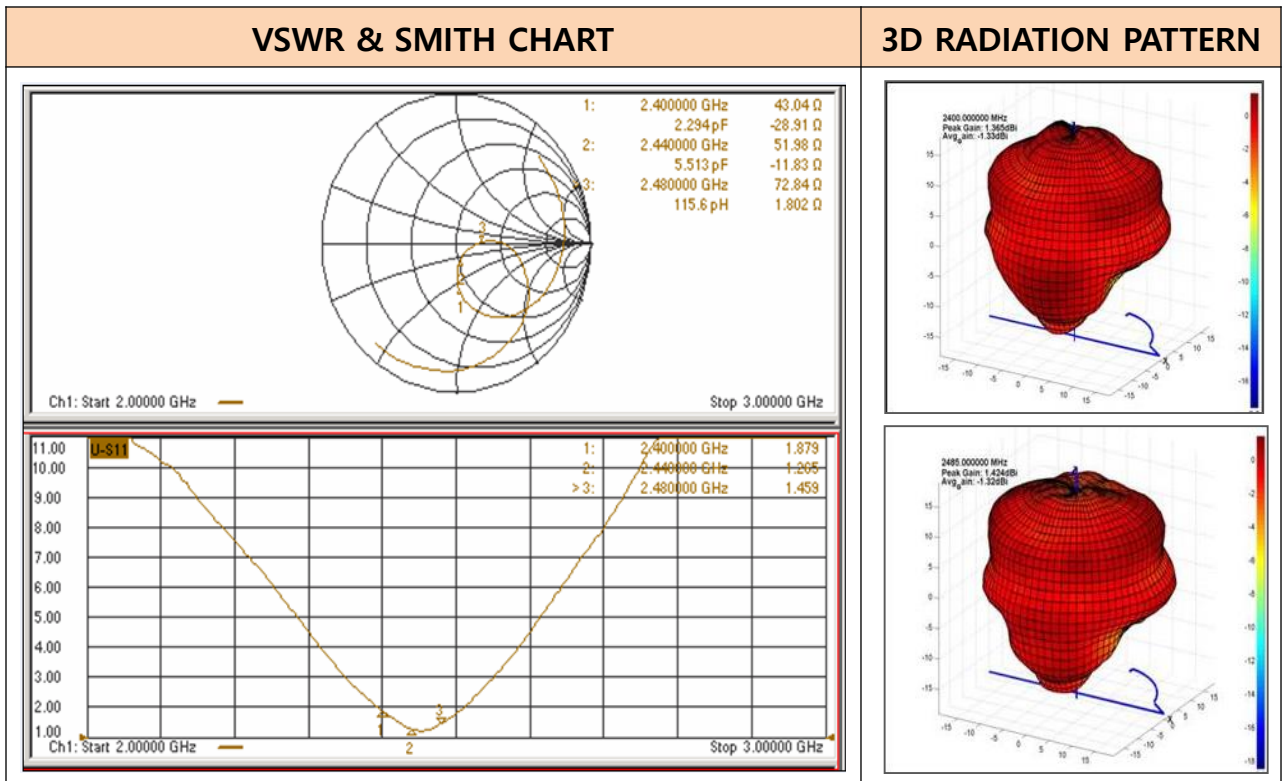


Bluetooth Chip Antenna

➤ Specification

Item		Specification				
Frequency range		2400~2483G				
VSWR		2 :1 under				
Polarization		Linear				
Radiation		Omni-directional				
Impedance		50Ω				
Frequency [MHz]		2400	2420	2440	2460	2480
Gain[dBi]	Peak	3.2	2.9	1.8	1.0	1.3
	Average	-1.8	-2.0	-2.4	-3.1	-2.7
Efficiency(%)		66.7	63.7	58.1	49.3	53.3

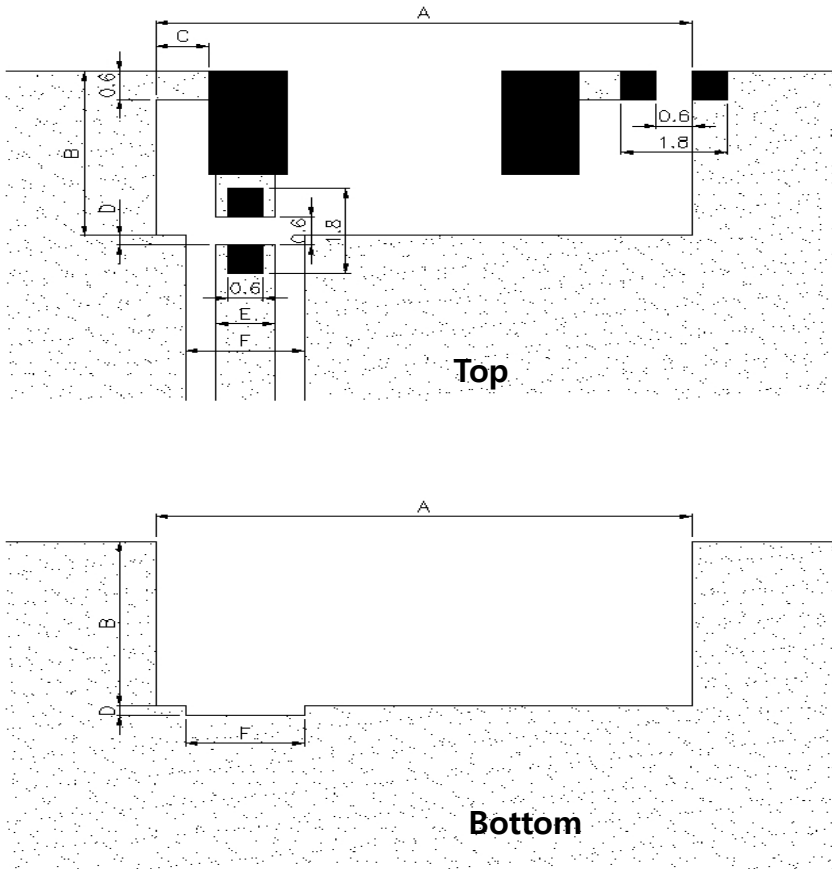
➤ Electrical Characteristics



Bluetooth Chip Antenna

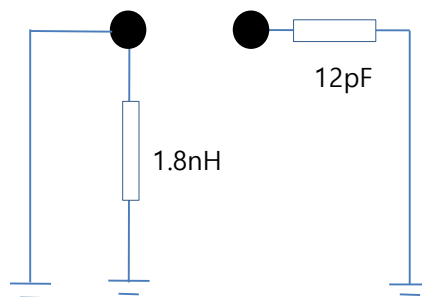
➤ Standard PCB Design & Matching Circuit

- ✓ **Standard PCB Design** (unit : mm , tolerance : ± 0.05)



A	7
B	4
C	0.9
D	0
E	0.6
F	1.6

- ✓ **Matching Circuit**



< Default Condition Equivalent Circuit >

DATA SHEETS

P/N : ABP5020A1



Bluetooth Chip Antenna

◆ P/N : ABP5020A1

➤ Features

- ✓ These **ABP5020A1** is specially designed for Bluetooth.
- ✓ **High dielectric, Low loss** antenna was achieved by **new material**.
- ✓ By utilizing PCB assembly line, it can be mass produced at **low cost**

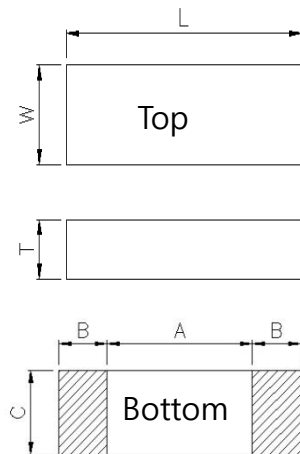
➤ Part Numbering(P/N)

A B P 5020 A 1
① ② ③ ④ ⑤ ⑥

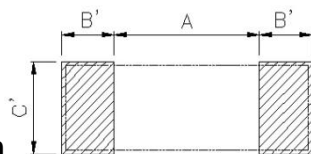
- ① Product company : A- ARRO
- ② Application : B -Bluetooth
- ③ Antenna Type : P- PIFA
- ④ Chip antenna size : 5020 -5.0 x 2.0
- ⑤ Product thickness : A - 1.2 T
- ⑥ Revision number : 1 –first product

➤ Mechanical Dimension

Chip Antenna Dimension



Chip Antenna Soldering Pad Dimension



L	5
W	2
T	1.2
A	2.6
B	1.2
C	2
B'	1.25
C'	2.1

Chip Antenna Real Product



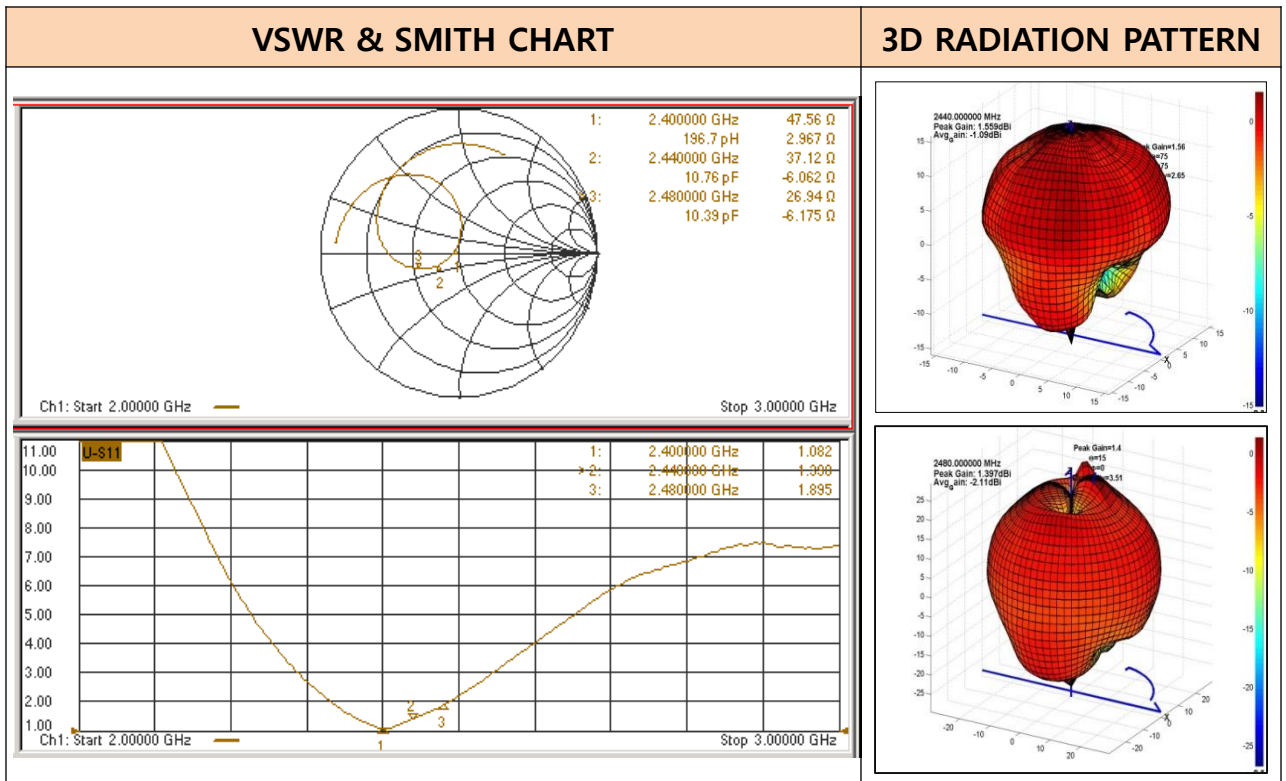
(unit : mm , tolerance : ± 0.1)

Bluetooth Chip Antenna

➤ Specification

Item		Specification				
Frequency range		2400~2483G				
VSWR		2:1 under				
Polarization		Linear				
Radiation		Omni-directional				
Impedance		50Ω				
Frequency [MHz]		2400	2420	2440	2460	2480
Gain[dBi]	Peak	2.7	1.7	0.4	1.4	1.4
	Average	-1.1	-1.3	-1.9	-2.1	-2.1
Efficiency(%)		78.2	74.5	64.5	61.1	61.4

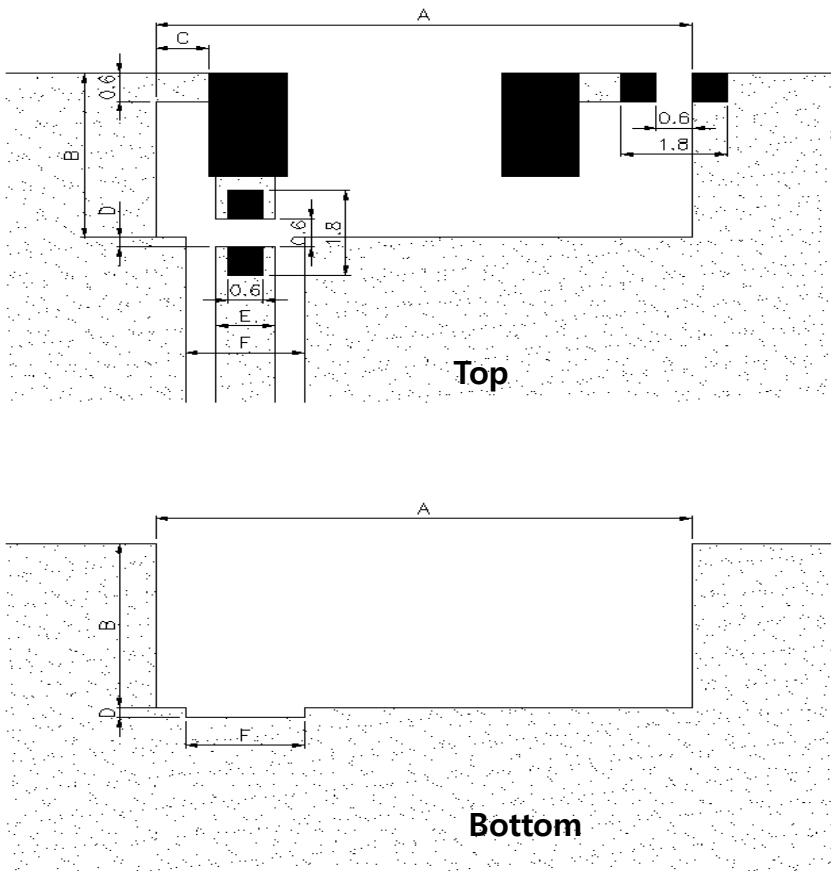
➤ Electrical Characteristics



Bluetooth Chip Antenna

➤ Standard PCB Design & Matching Circuit

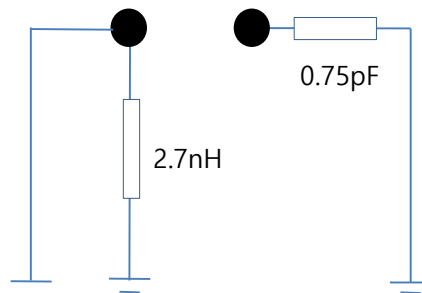
- ✓ **Standard PCB Design** (unit : mm , tolerance : ± 0.05)



(Unit : mm)

A	8
B	3.5
C	0.9
D	0.2
E	1
F	2

- ✓ **Matching Circuit**



< Default Condition Equivalent Circuit >

DATA SHEETS

P/N : ABP5020A2



Bluetooth Chip Antenna

◆ P/N : ABP5020A2

➤ Features

- ✓ These **ABP5020A2** is specially designed for Bluetooth.
- ✓ **High dielectric, Low loss** antenna was achieved by **new material**.
- ✓ By utilizing PCB assembly line, it can be mass produced at **low cost**

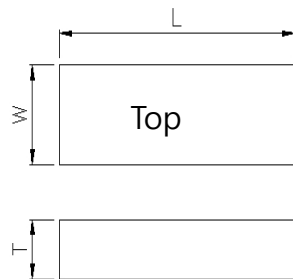
➤ Part Numbering(P/N)

A B P 5020 A 2
① ② ③ ④ ⑤ ⑥

- ① Product company : A- ARRO
- ② Application : B -Bluetooth
- ③ Antenna Type : P- PIFA
- ④ Chip antenna size : 5020 -5.0 x 2.0
- ⑤ Product thickness : A - 1.2 T
- ⑥ Revision number : 2 – second edition.

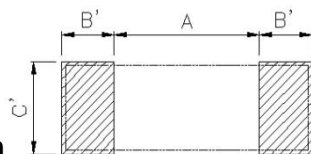
➤ Mechanical Dimension

Chip Antenna Dimension

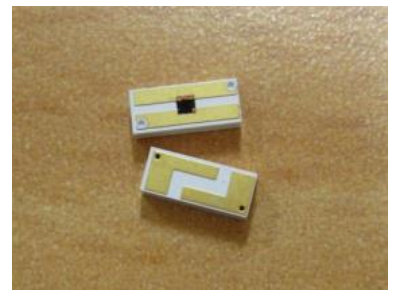


L	5
W	2
T	1.2
A	2.6
B	1.2
C	2
B'	1.25
C'	2.1

Chip Antenna Soldering Pad Dimension



Chip Antenna Real Product



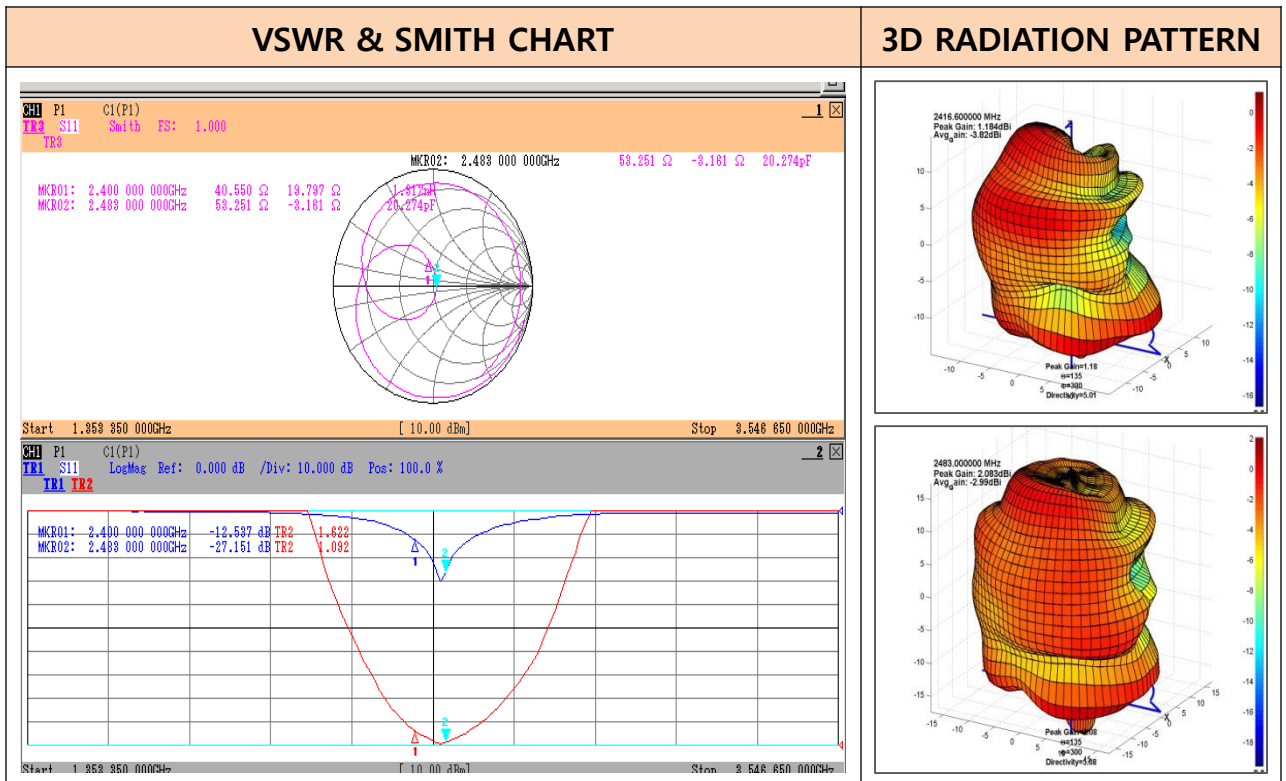
(unit : mm , tolerance : ± 0.1)

Bluetooth Chip Antenna

➤ Specification

Item		Specification				
Frequency range		2400~2483G				
VSWR		2:1 under				
Polarization		Linear				
Radiation		Omni-directional				
Impedance		50Ω				
Frequency [MHz]		2400	2420	2440	2460	2480
Gain[dBi]	Peak	1.2	2.0	2.6	2.7	2.1
	Average	-3.8	-3.0	-2.4	-2.3	-3.0
Efficiency(%)		41.6	50.8	57.1	59.4	50.1

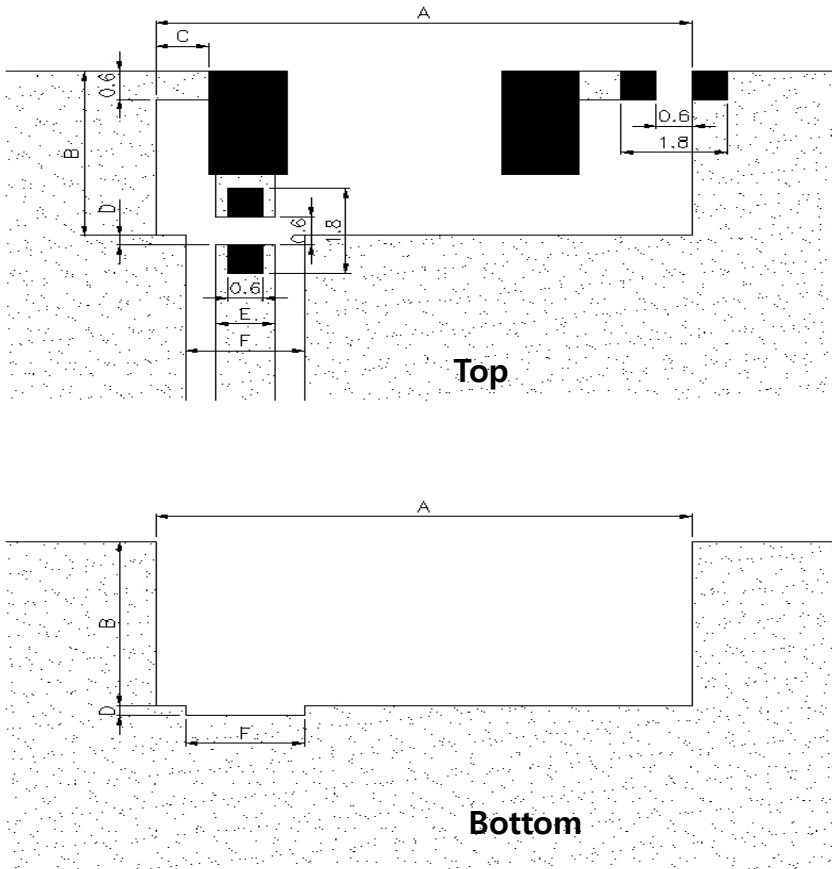
➤ Electrical Characteristics



Bluetooth Chip Antenna

➤ Standard PCB Design & Matching Circuit

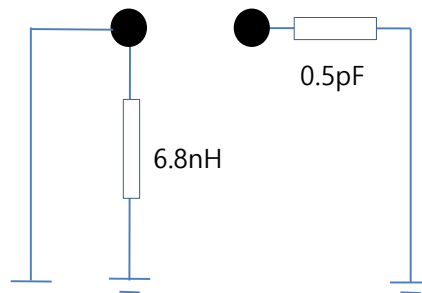
- ✓ **Standard PCB Design** (unit : mm , tolerance : ± 0.05)



(Unit : mm)

A	8
B	3.5
C	0.9
D	0.2
E	1
F	2

- ✓ **Matching Circuit**



< Default Condition Equivalent Circuit >

DATA SHEETS

P/N : ABM5020B1



Bluetooth Chip Antenna

◆ P/N : ABM5020B1

➤ Features

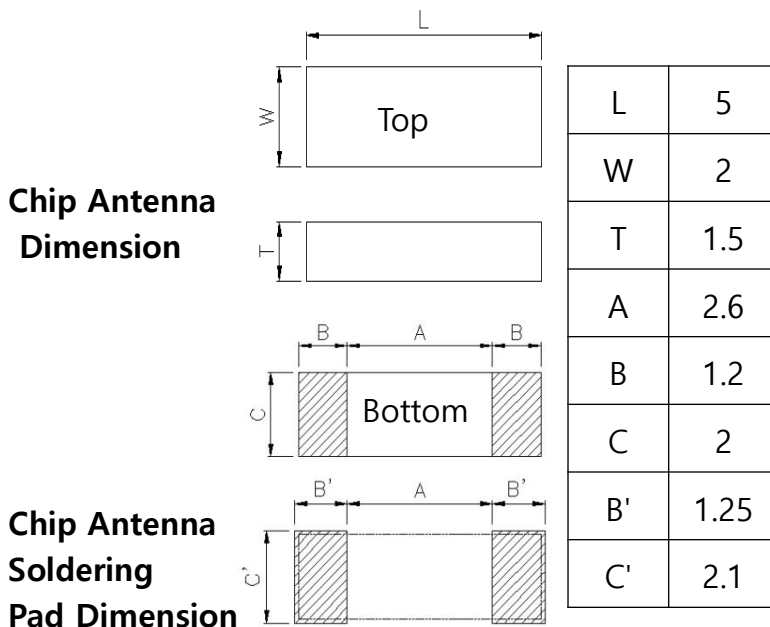
- ✓ These **ABM5020B1** is specially designed for Bluetooth.
- ✓ **High dielectric, Low loss** antenna was achieved by **new material**.
- ✓ By utilizing PCB assembly line, it can be mass produced at **low cost**

➤ Part Numbering(P/N)

A B M 5020 B 1
① ② ③ ④ ⑤ ⑥

- ① Product company : A- ARRO
- ② Application : B -Bluetooth
- ③ Antenna Type : M- Monopole
- ④ Chip antenna size : 5020 -5.0 x 2.0
- ⑤ Product thickness : B - 1.5 T
- ⑥ Revision number : 1 –first product

➤ Mechanical Dimension



Chip Antenna Real Product



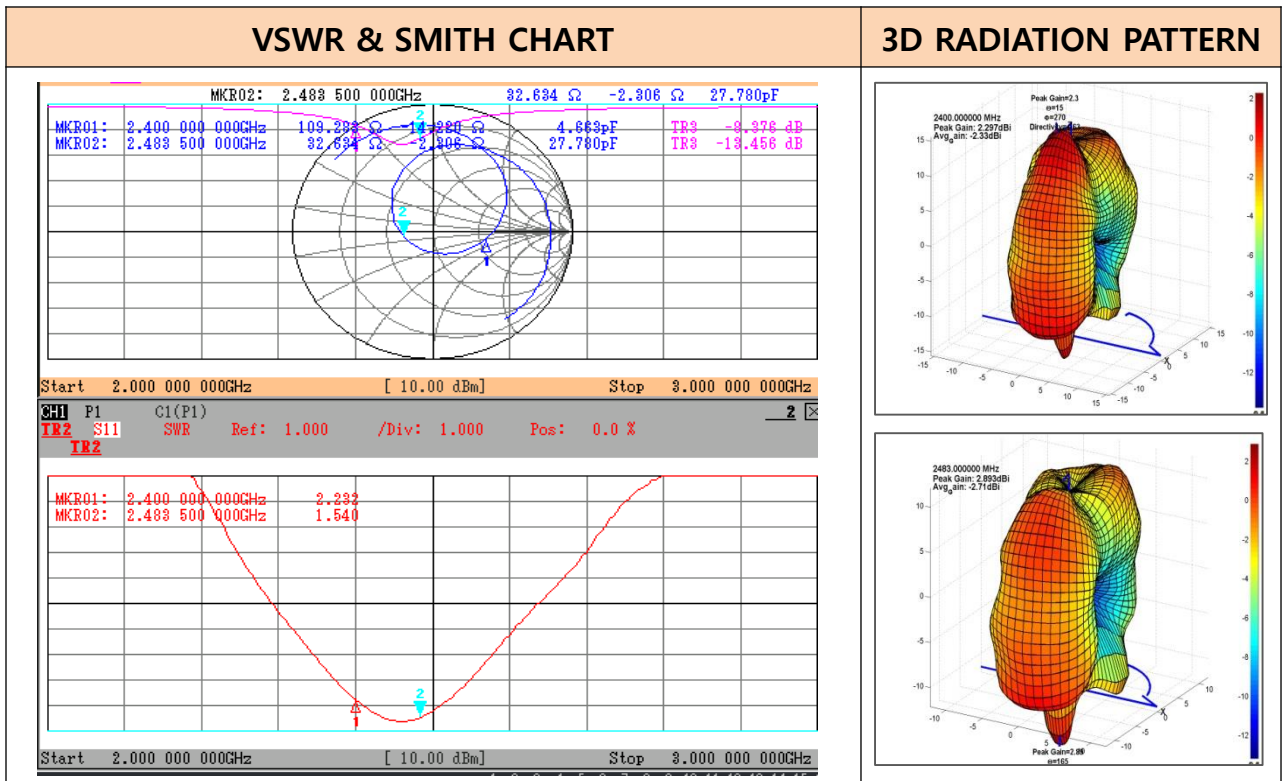
(unit : mm , tolerance : ± 0.1)

Bluetooth Chip Antenna

➤ Specification

Item		Specification				
Frequency range		2400~2483G				
VSWR		2:1 under				
Polarization		Linear				
Radiation		Omni-directional				
Impedance		50Ω				
Frequency [MHz]		2400	2420	2440	2460	2480
Gain[dBi]	Peak	2.3	2.4	3.4	3.7	2.9
	Average	-2.3	-2.3	-1.8	-1.8	-2.7
Efficiency(%)		68.6	69.2	69.4	69	53.5

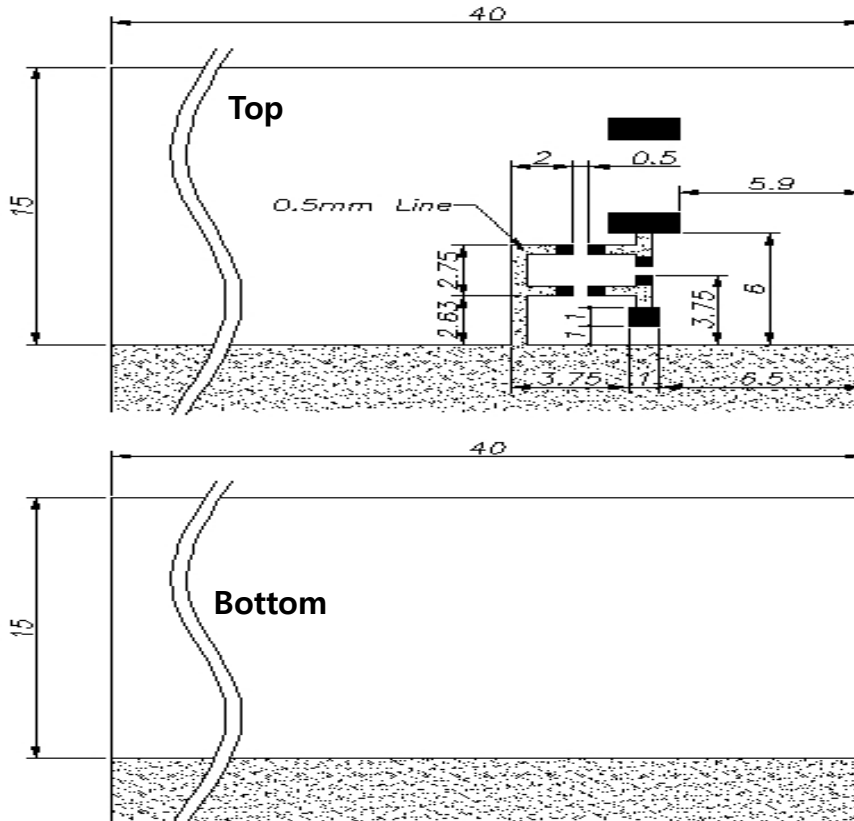
➤ Electrical Characteristics



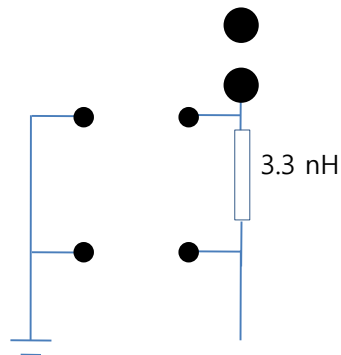
Bluetooth Chip Antenna

➤ Standard PCB Design & Matching Circuit

- ✓ Standard PCB Design (unit : mm , tolerance : ± 0.05)



- ✓ Matching Circuit



< Default Condition Equivalent Circuit >

DATA SHEETS

P/N : ABP6020A2



Bluetooth Chip Antenna

◆ P/N : ABP6020A2

➤ Features

- ✓ These **ABP6020A2** is specially designed for Bluetooth.
- ✓ **High dielectric, Low loss** antenna was achieved by **new material**.
- ✓ By utilizing PCB assembly line, it can be mass produced at **low cost**

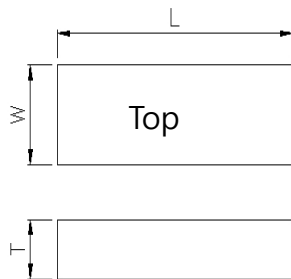
➤ Part Numbering(P/N)

A B P 6020 A 2
① ② ③ ④ ⑤ ⑥

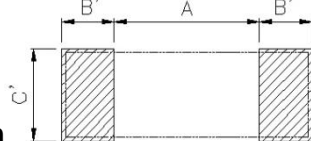
- ① Product company : A- ARRO
- ② Application : B -Bluetooth
- ③ Antenna type : P- PIFA
- ④ Chip antenna size : 6020 -6.0 x 2.0
- ⑤ Product thickness : A - 1.2 T
- ⑥ Revision number : 2 – Second edition

➤ Mechanical Dimension

Chip Antenna Dimension



Chip Antenna Soldering Pad Dimension



L	6
W	2
T	1.2
A	3.6
B	1.2
C	2
B'	1.3
C'	2.2

Chip Antenna Real Product



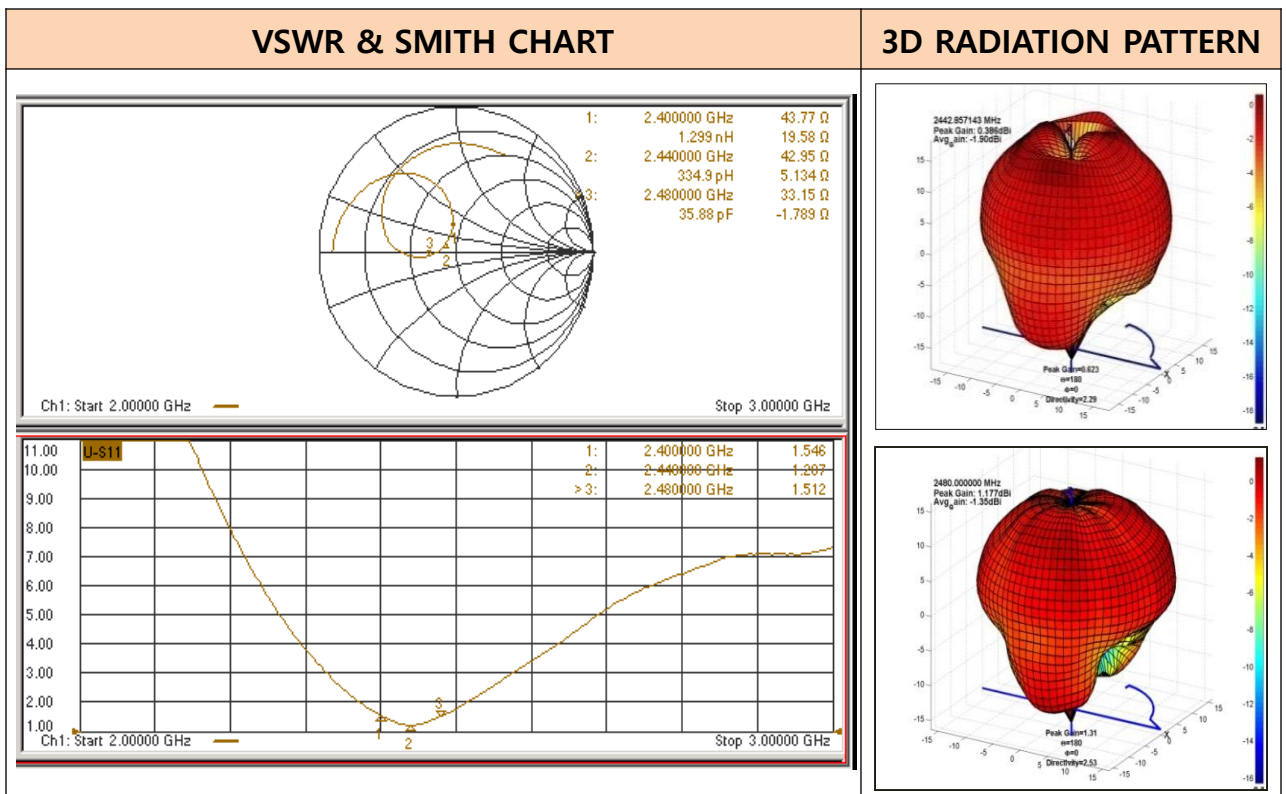
(unit : mm , tolerance : ± 0.1)

Bluetooth Chip Antenna

➤ Specification

Item		Specification				
Frequency range		2400~2483G				
VSWR		2:1 under				
Polarization		Linear				
Radiation		Omni-directional				
Impedance		50Ω				
Frequency [MHz]		2400	2420	2440	2460	2480
Gain[dBi]	Peak	1.9	2.0	1.6	1.1	1.2
	Average	-0.9	-0.7	-1.1	-1.3	-1.4
Efficiency(%)		81.5	85.0	77.7	74.0	73.2

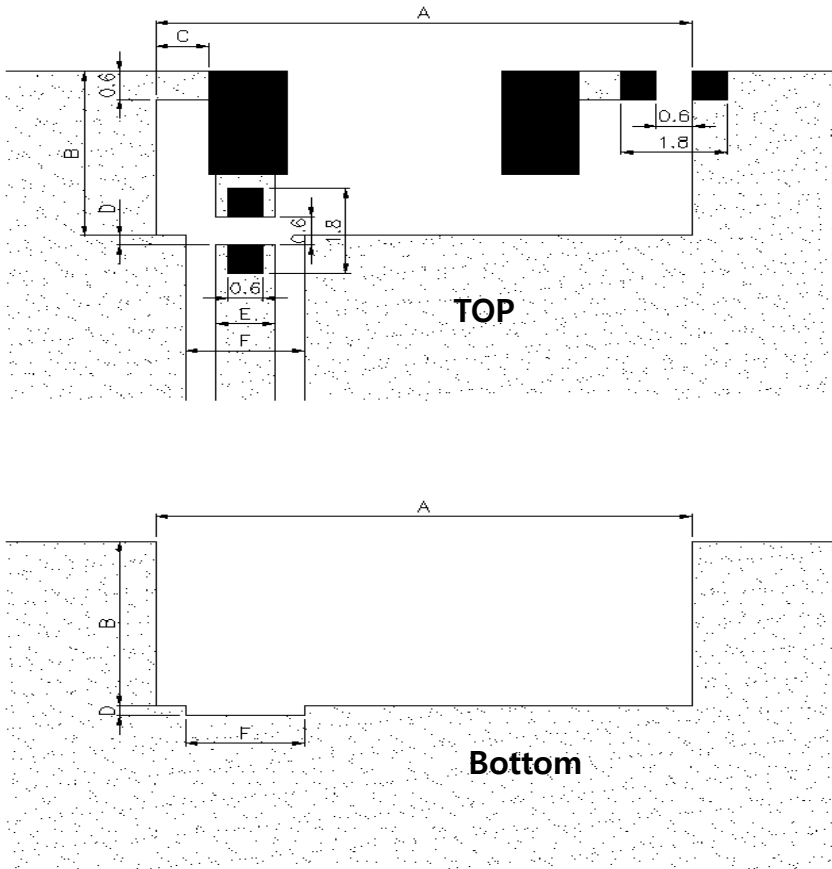
➤ Electrical Characteristics



Bluetooth Chip Antenna

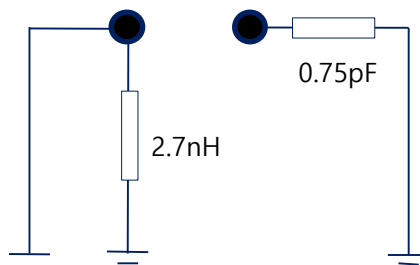
➤ Standard PCB Design & Matching Circuit

- ✓ **Standard PCB Design** (unit : mm , tolerance : ± 0.05)



A	9
B	3.5
C	0.9
D	0.2
E	1
F	2

- ✓ **Matching Circuit**



< Default Condition Equivalent Circuit >

DATA SHEETS

P/N : ABM6020B1



Bluetooth Chip Antenna

◆ P/N : ABM6020B1

➤ Features

- ✓ These **ABM6020B1** is specially designed for Bluetooth.
- ✓ **High dielectric, Low loss** antenna was achieved by **new material**.
- ✓ By utilizing PCB assembly line, it can be mass produced at **low cost**

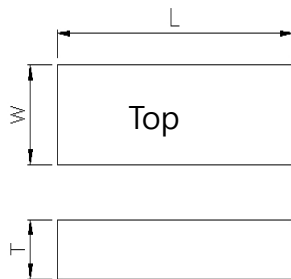
➤ Part Numbering(P/N)

A B M 6020 B 1
① ② ③ ④ ⑤ ⑥

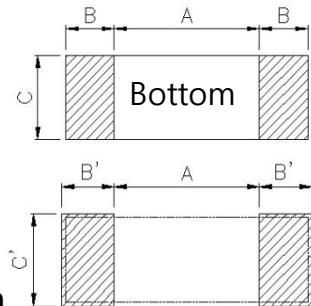
- ① Product company : A- ARRO
- ② Application : B -Bluetooth
- ③ Antenna Type : M- Monopole
- ④ Chip antenna size : 6020 -6.0 x 2.0
- ⑤ Product thickness : B - 1.5 T
- ⑥ Revision number : 1 –first product

➤ Mechanical Dimension

Chip Antenna
Dimension



Chip Antenna
Soldering
Pad Dimension



L	6.0
W	2.0
T	1.5
A	4.3
B	1.0
C	2.0
B'	1.1
C'	2.2

Chip Antenna Real Product



(unit : mm , tolerance : ± 0.1)

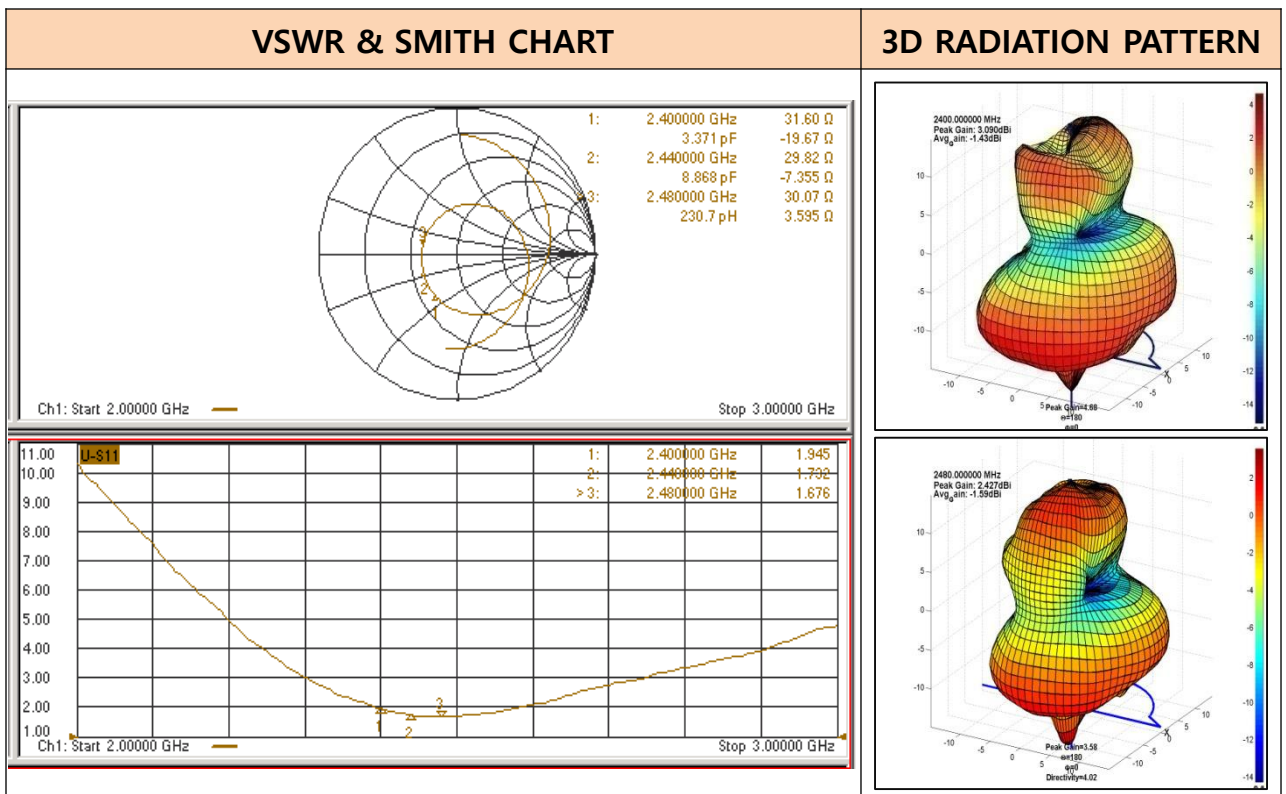
Bluetooth Chip Antenna

➤ Specification

Item		Specification				
Frequency range		2400~2483G				
VSWR		2:1 under				
Polarization		Linear				
Radiation		Omni-directional				
Impedance		50Ω				
Frequency [MHz]		2400	2420	2440	2460	2480
Gain[dBi]	Peak	3.1	3.1	2.8	2.6	2,4
	Average	-1.4	-1.5	-1.7	-1.7	-1.6
Efficiency(%)		71.9	70.4	67.6	67.9	69.3

*상기 특성은 전체 보드 사이즈가 85x40 mm로 측정한 결과임.

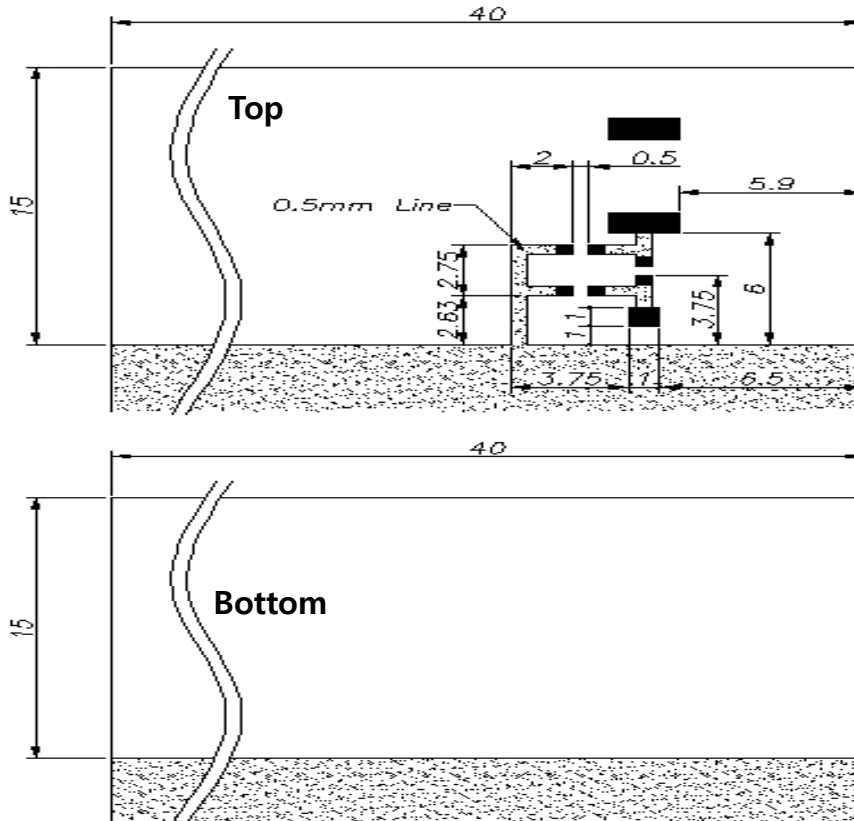
➤ Electrical Characteristics



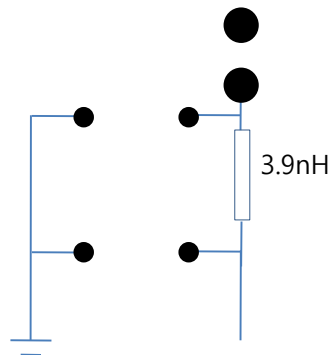
Bluetooth Chip Antenna

➤ Standard PCB Design & Matching Circuit

- ✓ Standard PCB Design (unit : mm , tolerance : ± 0.05)



- ✓ Matching Circuit



< Default Condition Equivalent Circuit >

DATA SHEETS

P/N : ABM6020B2



Bluetooth Chip Antenna

◆ P/N : ABM6020B2

➤ Features

- ✓ These **ABM6020B2** is specially designed for Bluetooth.
- ✓ **High dielectric, Low loss** antenna was achieved by **new material**.
- ✓ By utilizing PCB assembly line, it can be mass produced at **low cost**

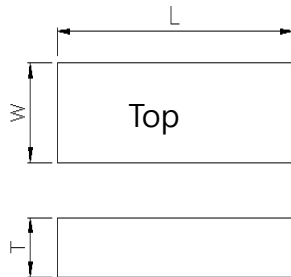
➤ Part Numbering(P/N)

A B M 6020 B 2
① ② ③ ④ ⑤ ⑥

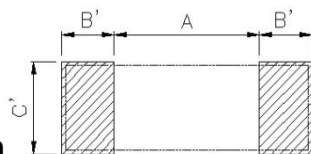
- ① Product company : A- ARRO
- ② Application : B -Bluetooth
- ③ Antenna Type : M- Monopole
- ④ Chip antenna size : 6020 -6.0 x 2.0
- ⑤ Product thickness : B - 1.5 T
- ⑥ Revision number : 2 –second product

➤ Mechanical Dimension

Chip Antenna Dimension



Chip Antenna Soldering Pad Dimension



L	6.0
W	2.0
T	1.5
A	4.3
B	1.0
C	2.0
B'	1.1
C'	2.2

Chip Antenna Real Product



(unit : mm , tolerance : ± 0.1)

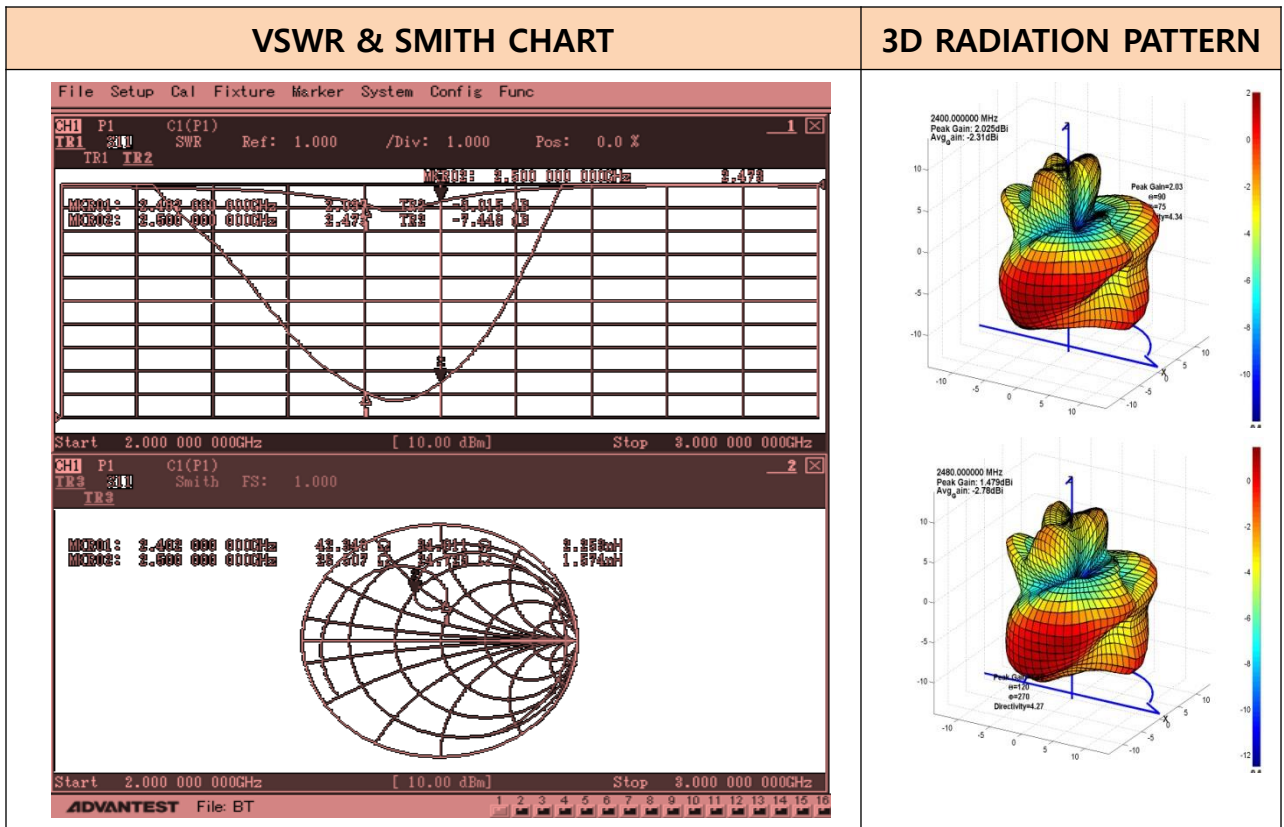
Bluetooth Chip Antenna

➤ Specification

Item		Specification				
Frequency range		2400~2483G				
VSWR		:1 under				
Polarization		Linear				
Radiation		Omni-directional				
Impedance		50Ω				
Frequency [MHz]		2400	2420	2440	2460	2480
Gain[dBi]	Peak	2.0	3.1	2.7	2.2	1.5
	Average	-2.3	-1.4	-1.6	-2.2	-2.8
Efficiency(%)		58.7	72.4	69.6	60.8	52.7

*상기 특성은 전체 보드 사이즈가 85x40 mm로 측정한 결과임.

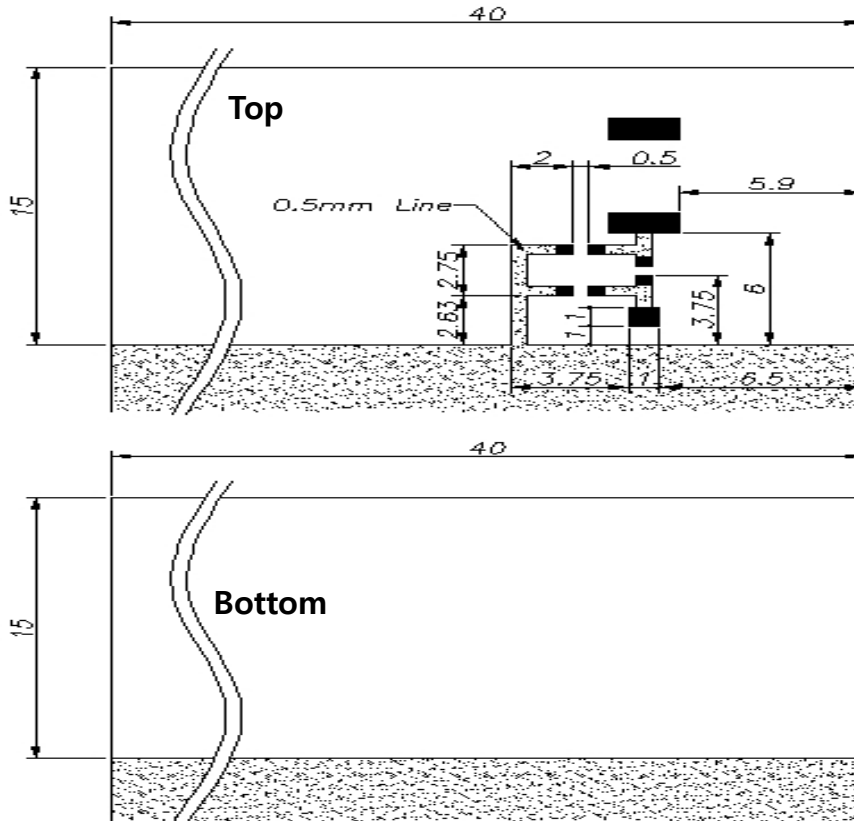
➤ Electrical Characteristics



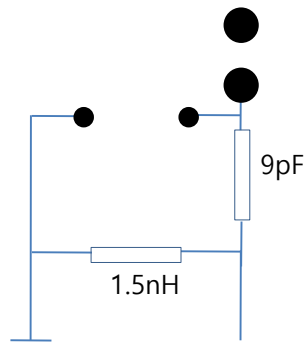
Bluetooth Chip Antenna

➤ Standard PCB Design & Matching Circuit

- ✓ Standard PCB Design (unit : mm , tolerance : ± 0.05)



- ✓ Matching Circuit



< Default Condition Equivalent Circuit >

DATA SHEETS

P/N : ABM6320C1



Bluetooth Chip Antenna

◆ P/N : ABM6320C1

➤ Features

- ✓ These **ABM6320C1** is specially designed for Bluetooth.
- ✓ **High dielectric, Low loss** antenna was achieved by **new material**.
- ✓ By utilizing PCB assembly line, it can be mass produced at **low cost**

➤ Part Numbering(P/N)

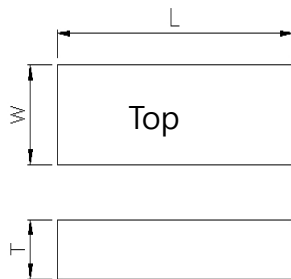
A B M 6320 C 1

① ② ③ ④ ⑤ ⑥

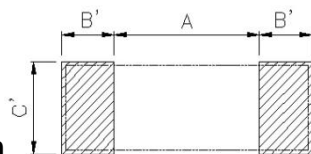
- ① Product company : A- ARRO
- ② Application : B -Bluetooth
- ③ Antenna Type : M- Monopole
- ④ Chip antenna size : 6320 -6.3 x 2.0
- ⑤ Product thickness : C - 1.0 T
- ⑥ Revision number : 1 –first product

➤ Mechanical Dimension

Chip Antenna Dimension



Chip Antenna Soldering Pad Dimension



L	6.3
W	2.0
T	1.0
A	4.3
B	1.0
C	2.0
B'	1.1
C'	2.2

Chip Antenna Real Product



(unit : mm , tolerance : ± 0.1)

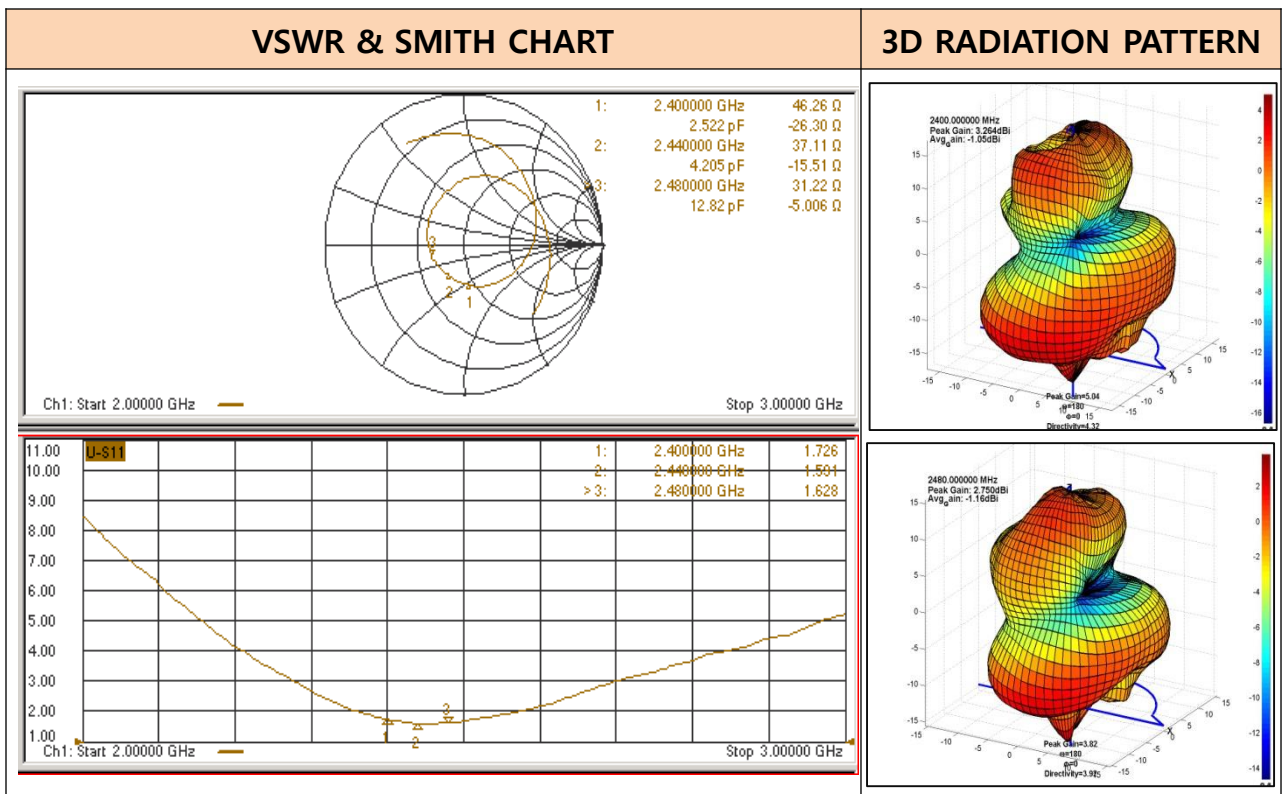
Bluetooth Chip Antenna

➤ Specification

Item		Specification				
Frequency range		2400~2483G				
VSWR		2:1 under				
Polarization		Linear				
Radiation		Omni-directional				
Impedance		50Ω				
Frequency [MHz]		2400	2420	2440	2460	2480
Gain[dBi]	Peak	3.3	3.2	2.9	2.6	2.8
	Average	-1.1	-1.2	-1.2	-1.3	-1.2
Efficiency(%)		78.4	76.1	75.6	73.4	76.4

*상기 특성은 전체 보드 사이즈가 85x40 mm로 측정한 결과임..

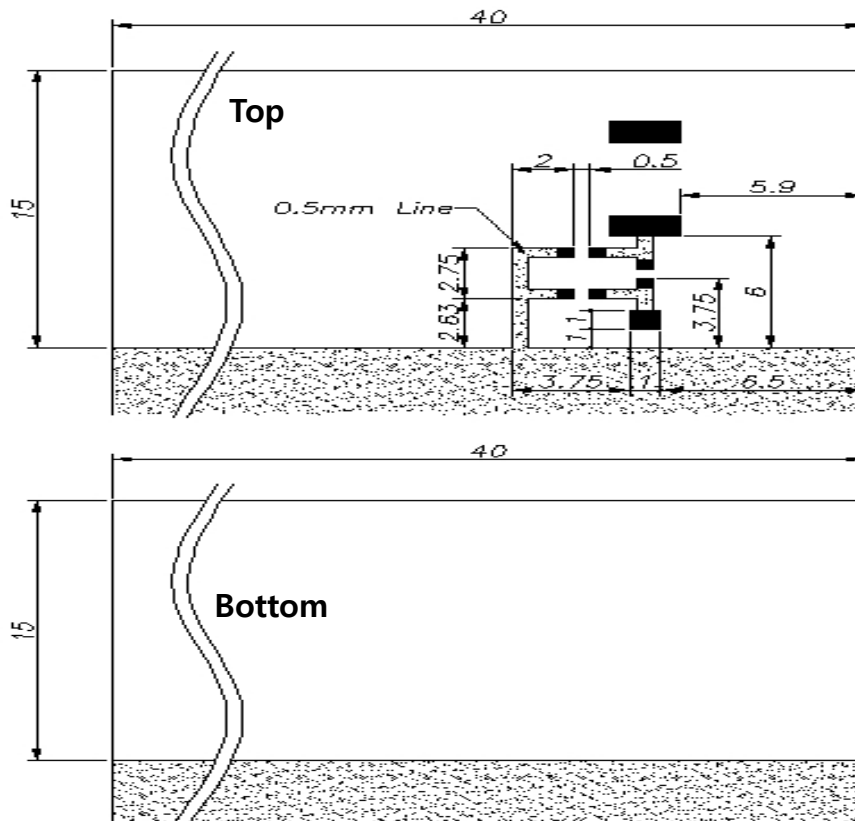
➤ Electrical Characteristics



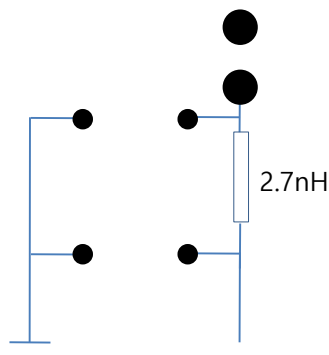
Bluetooth Chip Antenna

➤ Standard PCB Design & Matching Circuit

- ✓ Standard PCB Design (unit : mm , tolerance : ± 0.05)



- ✓ Matching Circuit



< Default Condition Equivalent Circuit >

DATA SHEETS

P/N : ABM7020A1



Bluetooth Chip Antenna

◆ P/N : ABM7020A1

➤ Features

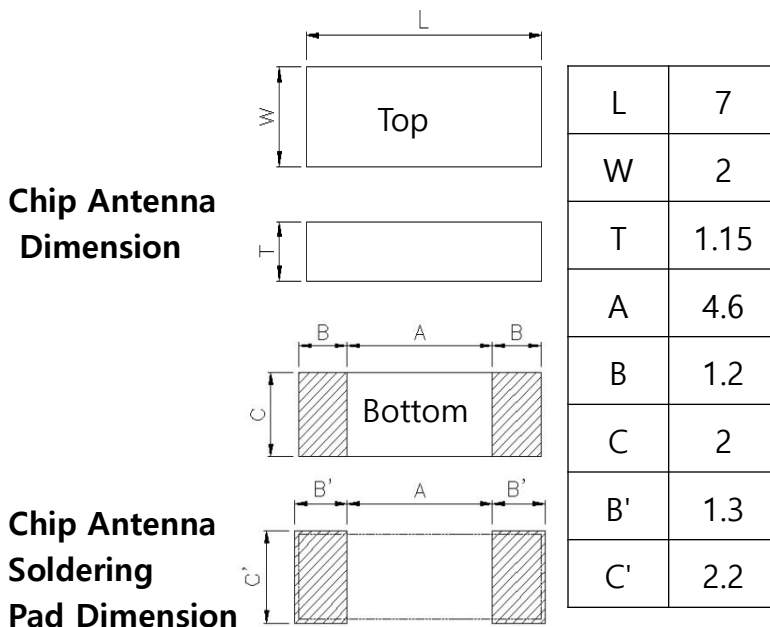
- ✓ These **ABM7020D1** is specially designed for Bluetooth.
- ✓ **High dielectric, Low loss** antenna was achieved by **new material**.
- ✓ By utilizing PCB assembly line, it can be mass produced at **low cost**

➤ Part Numbering(P/N)

A B M 7020 A 1
① ② ③ ④ ⑤ ⑥

- ① Product company : A- ARRO
- ② Application : B -Bluetooth
- ③ Antenna Type : M- Monopole
- ④ Chip antenna size : 7020 -7.0 x 2.0
- ⑤ Product thickness : D – 1.15 T
- ⑥ Revision number : 1 –first product

➤ Mechanical Dimension



Chip Antenna Real Product



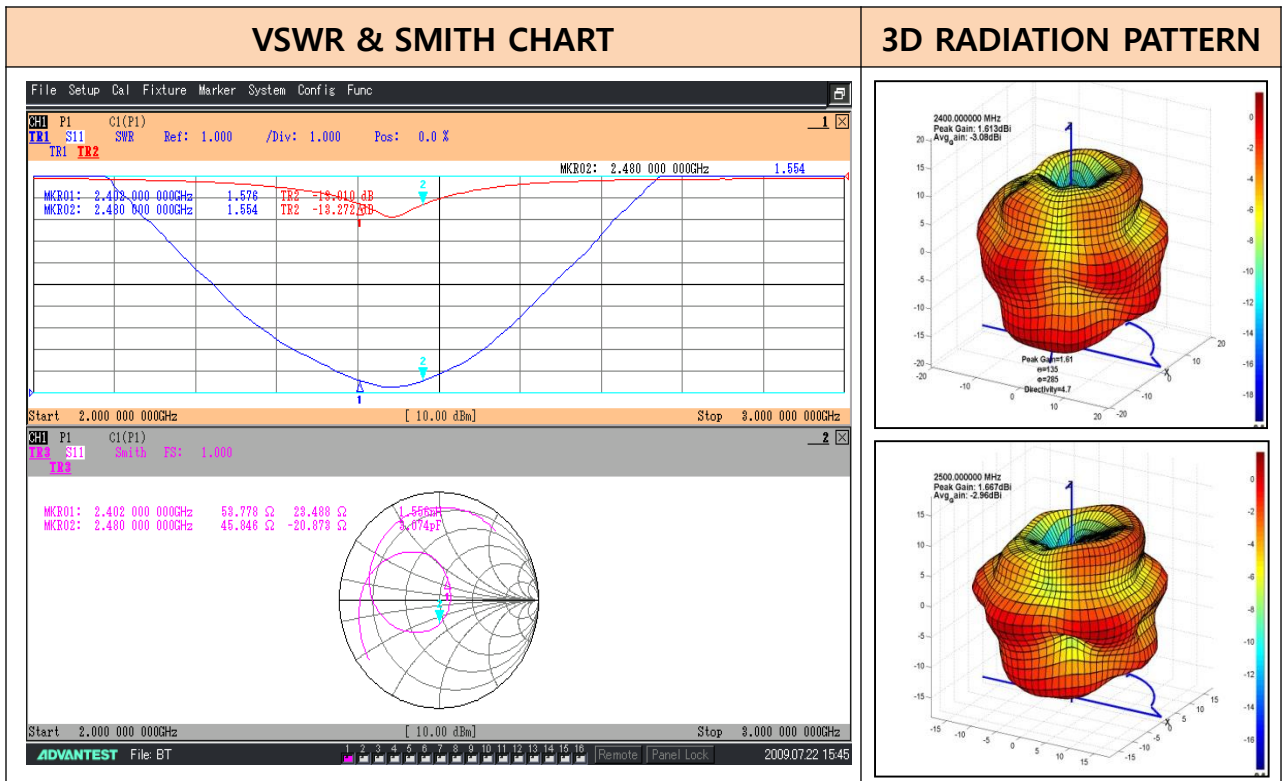
(unit : mm , tolerance : ± 0.1)

Bluetooth Chip Antenna

➤ Specification

Item		Specification				
Frequency range		2400~2483G				
VSWR		2:1 under				
Polarization		Linear				
Radiation		Omni-directional				
Impedance		50Ω				
Frequency [MHz]		2400	2420	2440	2460	2480
Gain[dBi]	Peak	1.6	2.4	1.7	1.3	1.7
	Average	-3.1	-2.2	-2.5	-3.3	-3.0
Efficiency(%)		49.1	60.7	56.1	46.4	50.5

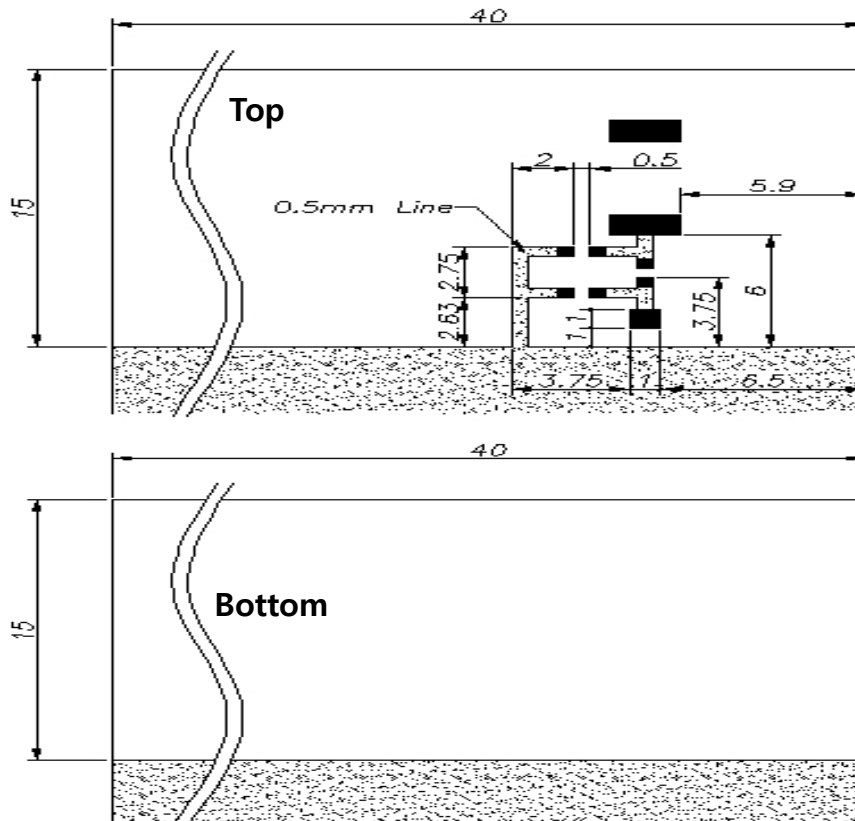
➤ Electrical Characteristics



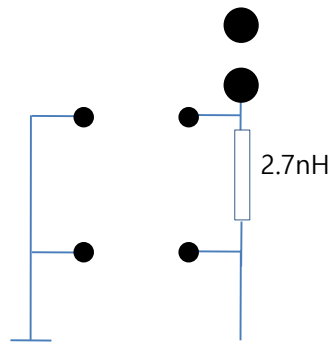
Bluetooth Chip Antenna

➤ Standard PCB Design & Matching Circuit

- ✓ Standard PCB Design (unit : mm , tolerance : ± 0.05)



- ✓ Matching Circuit



< Default Condition Equivalent Circuit >

DATA SHEETS

P/N : AWMM7030B1



WiMax Main Chip Antenna

◆ P/N : AWMM7030B1

➤ Features

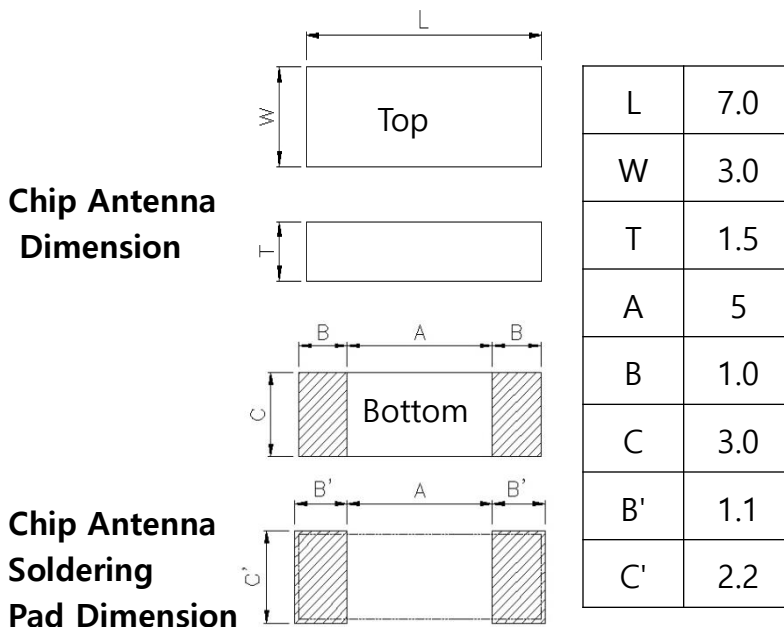
- ✓ These **AWMM7030B1** is specially designed for WiMax Main.
- ✓ **High dielectric, Low loss** antenna was achieved by **new material**.
- ✓ By utilizing PCB assembly line, it can be mass produced at **low cost**

➤ Part Numbering(P/N)

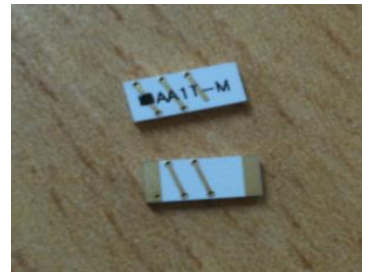
A WM M 7030 B 1
① ② ③ ④ ⑤ ⑥

- ① Product company : A - ARRO
- ② Application : WM - WiMax Main
- ③ Antenna Type : M - Monopole
- ④ Chip antenna size : 7030 - 7.0 x 3.0
- ⑤ Product thickness : B - 1.5 T
- ⑥ Revision number : 1 – first product

➤ Mechanical Dimension



Chip Antenna Real Product



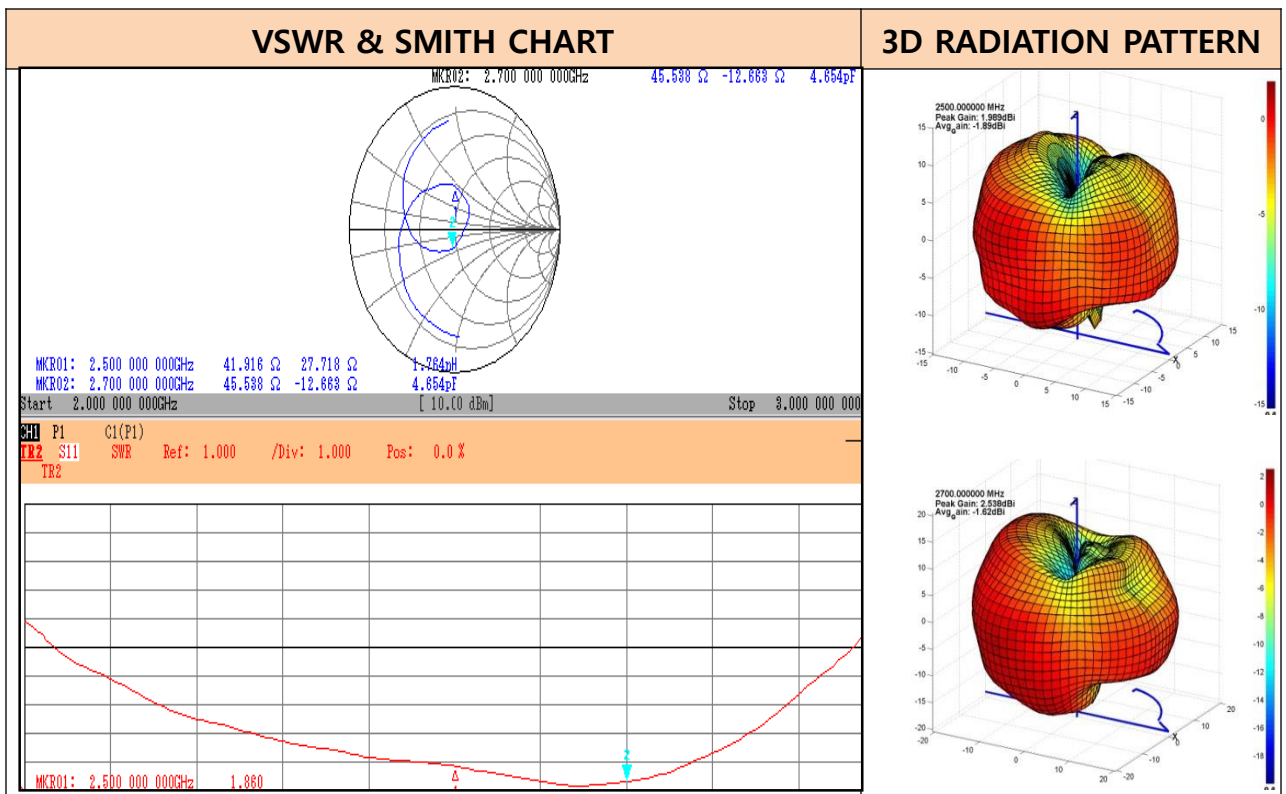
(unit : mm , tolerance : ± 0.1)

WiMax Main Chip Antenna

➤ Specification

Item		Specification				
Frequency range		2500~2700Mhz				
VSWR		2:1 under				
Polarization		Linear				
Radiation		Omni-directional				
Impedance		50Ω				
Frequency [MHz]		2500	2560	2610	2660	2700
Gain[dBi]	Peak	2.0	2.5	2.6	2.8	2.5
	Average	-1.9	-0.8	-0.9	-1.3	-1.6
Efficiency(%)		64.6	82.7	81.2	74.8	68.8

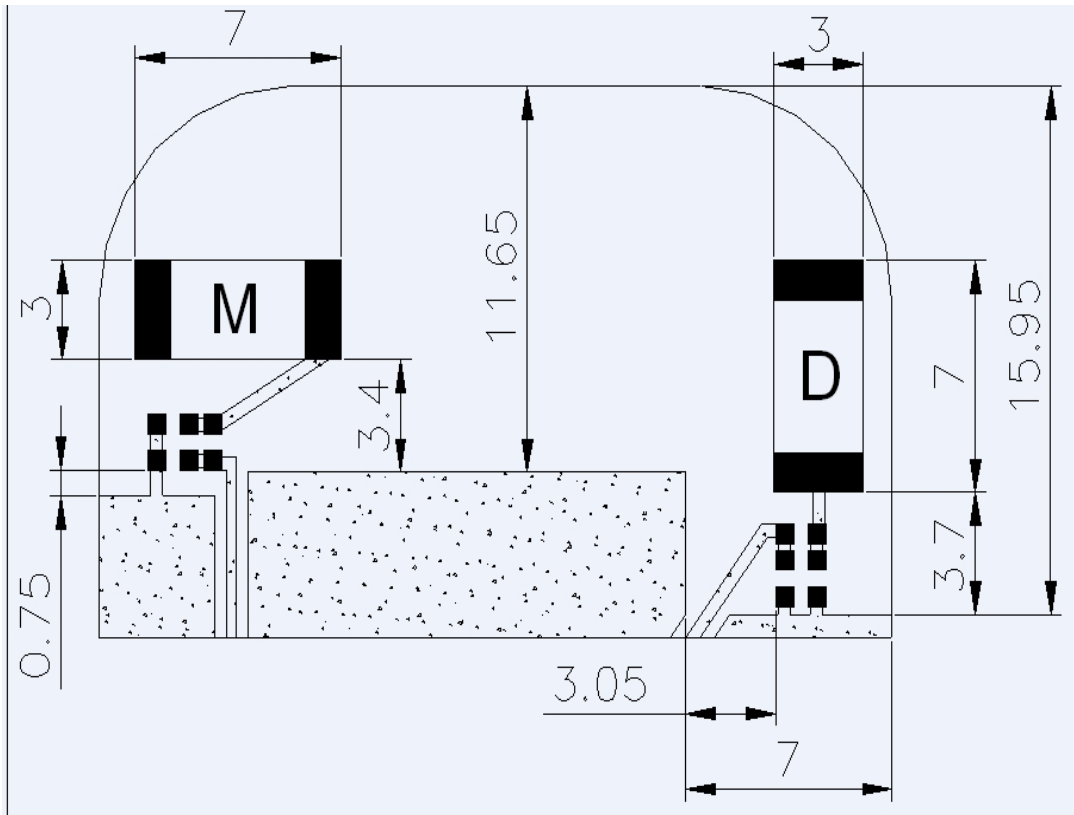
➤ Electrical Characteristics



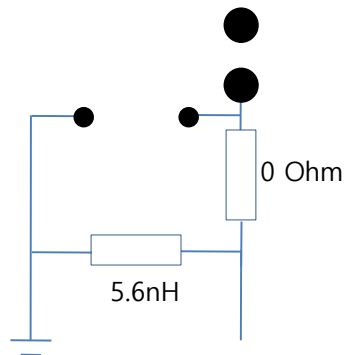
WiMax Main Chip Antenna

➤ Standard PCB Design & Matching Circuit

- ✓ Standard PCB Design (unit : mm , tolerance : ± 0.05)



- ✓ Matching Circuit



< Default Condition Equivalent Circuit >

DATA SHEETS

P/N : AWDM7030B1



WiMax Div Chip Antenna

◆ P/N : AWDM7030B1

➤ Features

- ✓ These **AWDM7030B1** is specially designed for WiMax Div.
- ✓ **High dielectric, Low loss** antenna was achieved by **new material**.
- ✓ By utilizing PCB assembly line, it can be mass produced at **low cost**

➤ Part Numbering(P/N)

A WD M 7030 B 1

① ② ③ ④ ⑤ ⑥

① Product company : A - ARRO

② Application : WM - WiMax Div

③ Antenna Type : M - Monopole

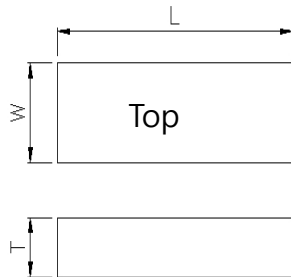
④ Chip antenna size : 7030 - 7.0 x 3.0

⑤ Product thickness : B - 1.5 T

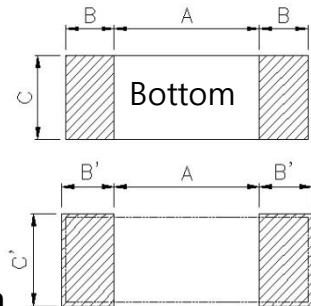
⑥ Revision number : 1 – first product

➤ Mechanical Dimension

Chip Antenna
Dimension

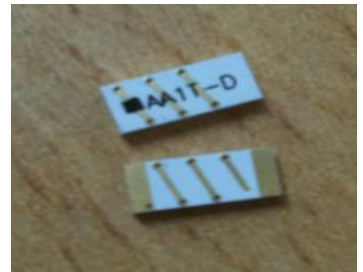


Chip Antenna
Soldering
Pad Dimension



L	7.0
W	3.0
T	1.5
A	5
B	1.0
C	3.0
B'	1.1
C'	2.2

Chip Antenna Real Product



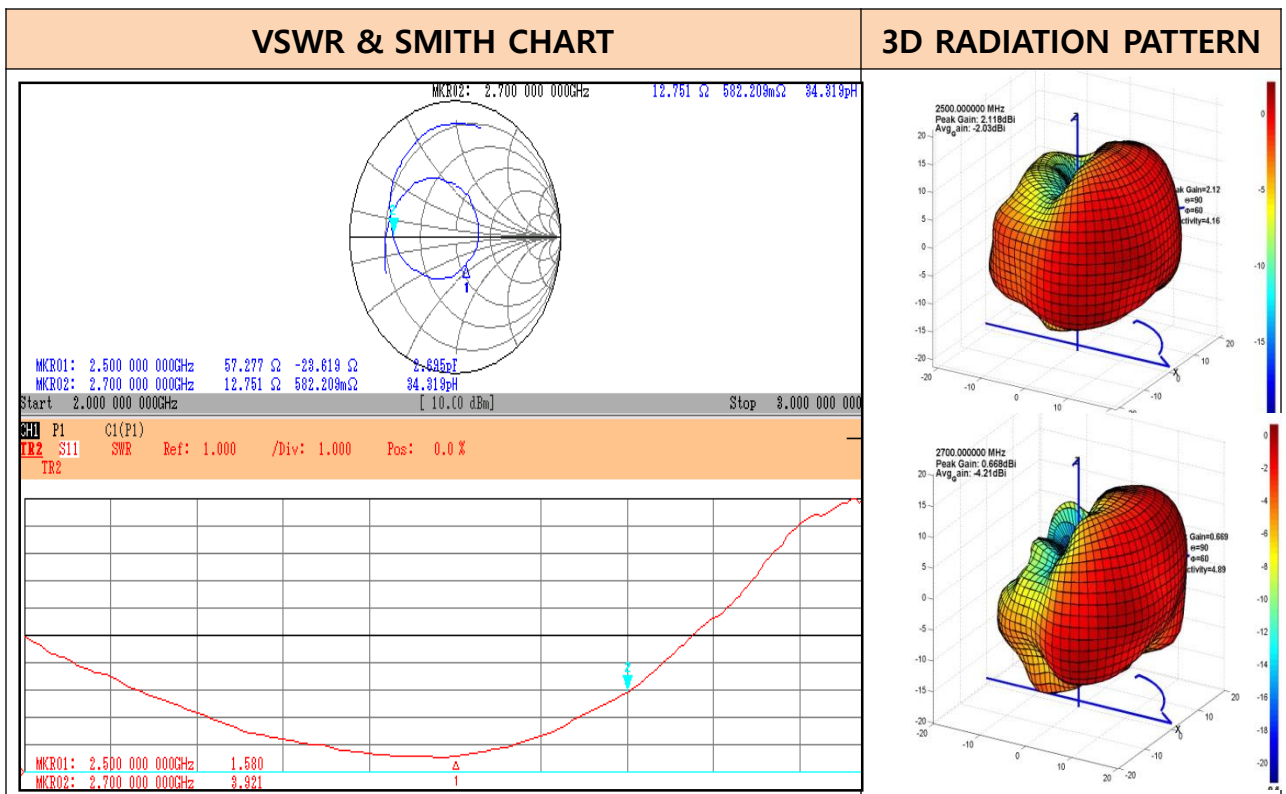
(unit : mm , tolerance : ± 0.1)

WiMax Div Chip Antenna

➤ Specification

Item		Specification				
Frequency range		2500~2700Mhz				
VSWR		2:1 under				
Polarization		Linear				
Radiation		Omni-directional				
Impedance		50Ω				
Frequency [MHz]		2500	2560	2610	2660	2700
Gain[dBi]	Peak	2.1	2.3	2.2	0.9	0.7
	Average	-2.0	-1.9	-2.4	-3.9	-4.2
Efficiency(%)		62.6	64.6	57.7	41.8	37.9

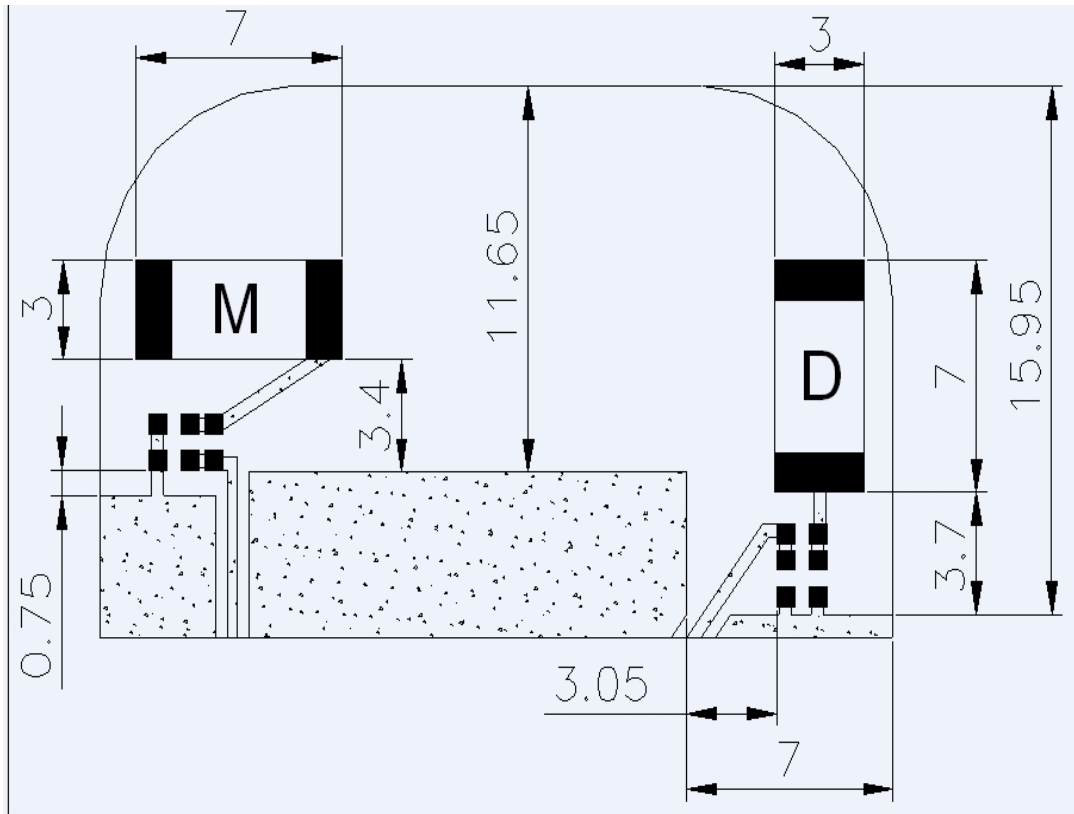
➤ Electrical Characteristics



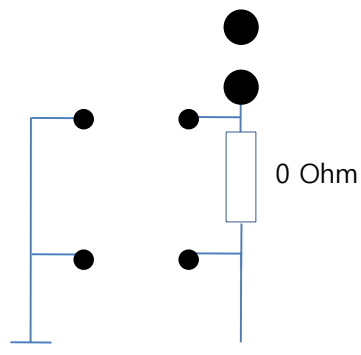
WiMax Div Chip Antenna

➤ Standard PCB Design & Matching Circuit

- ✓ Standard PCB Design (unit : mm , tolerance : ± 0.05)



- ✓ Matching Circuit



< Default Condition Equivalent Circuit >

DATA SHEETS

P/N : ABM9030A1



Bluetooth Chip Antenna

◆ P/N : ABM9030A1

➤ Features

- ✓ These **ABM9030A1** is specially designed for Bluetooth.
- ✓ **High dielectric, Low loss** antenna was achieved by **new material**.
- ✓ By utilizing PCB assembly line, it can be mass produced at **low cost**

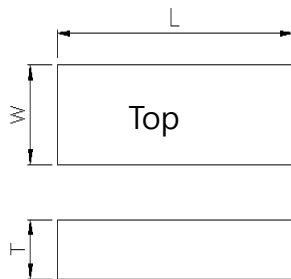
➤ Part Numbering(P/N)

A B M 9030 A 1
① ② ③ ④ ⑤ ⑥

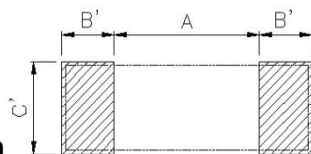
- ① Product company : A- ARRO
- ② Application : B – Bluetooth
- ③ Antenna Type : M- Monopole
- ④ Chip antenna size : 9030 -9.0 x 3.0
- ⑤ Product thickness : A - 1.2 T
- ⑥ Revision number : 1 –first product

➤ Mechanical Dimension

Chip Antenna Dimension



Chip Antenna Soldering Pad Dimension



L	9
W	3
T	1.2
A	7
B	1.0
C	3.0
B'	1.1
C'	3.2

Chip Antenna Real Product



(unit : mm , tolerance : ± 0.1)

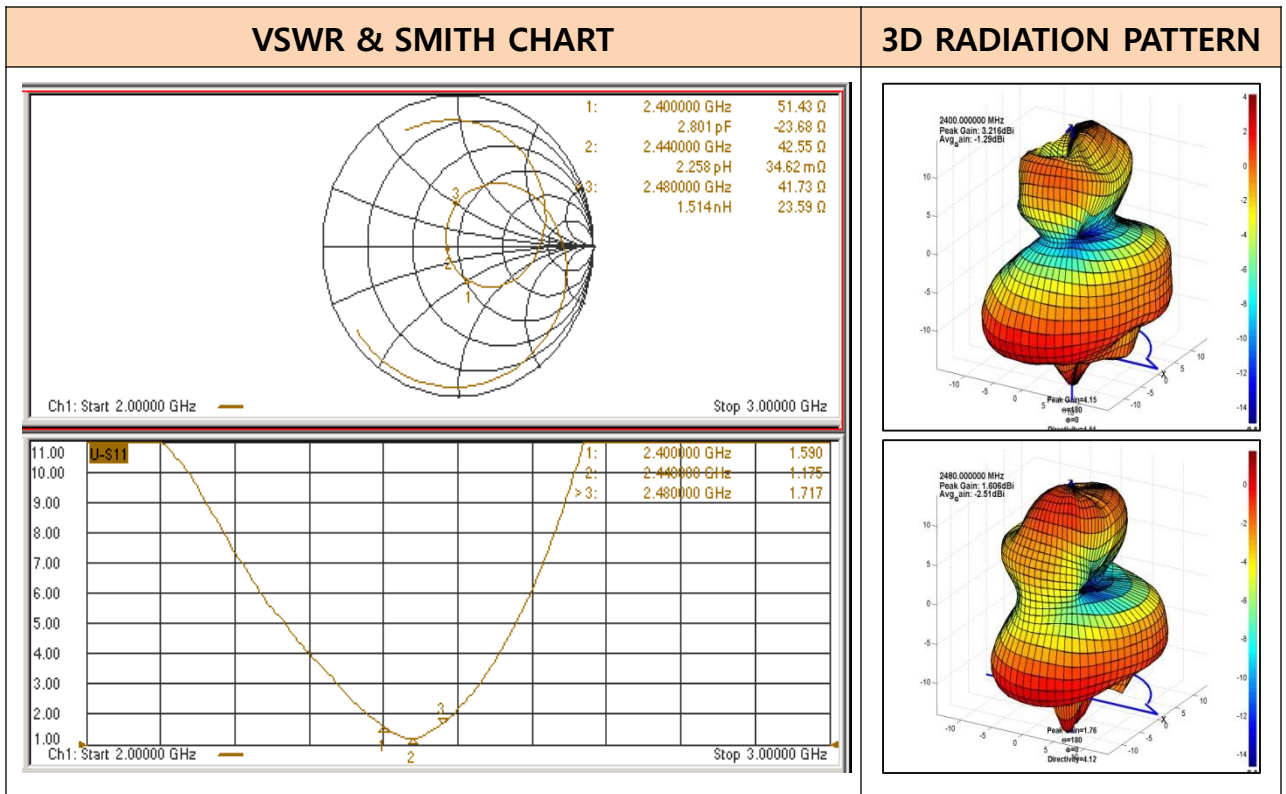
Bluetooth Chip Antenna

➤ Specification

Item		Specification				
Frequency range		2400~2483G				
VSWR		2:1 under				
Polarization		Linear				
Radiation		Omni-directional				
Impedance		50Ω				
Frequency [MHz]		2400	2420	2440	2460	2480
Gain[dBi]	Peak	3.2	3.3	2.8	2.6	1.6
	Average	-1.3	-1.4	-1.8	-1.8	-2.5
Efficiency(%)		74.2	73.1	66.0	65.5	56.1

*상기 특성은 전체 보드 사이즈가 85x40 mm로 측정한 결과임..

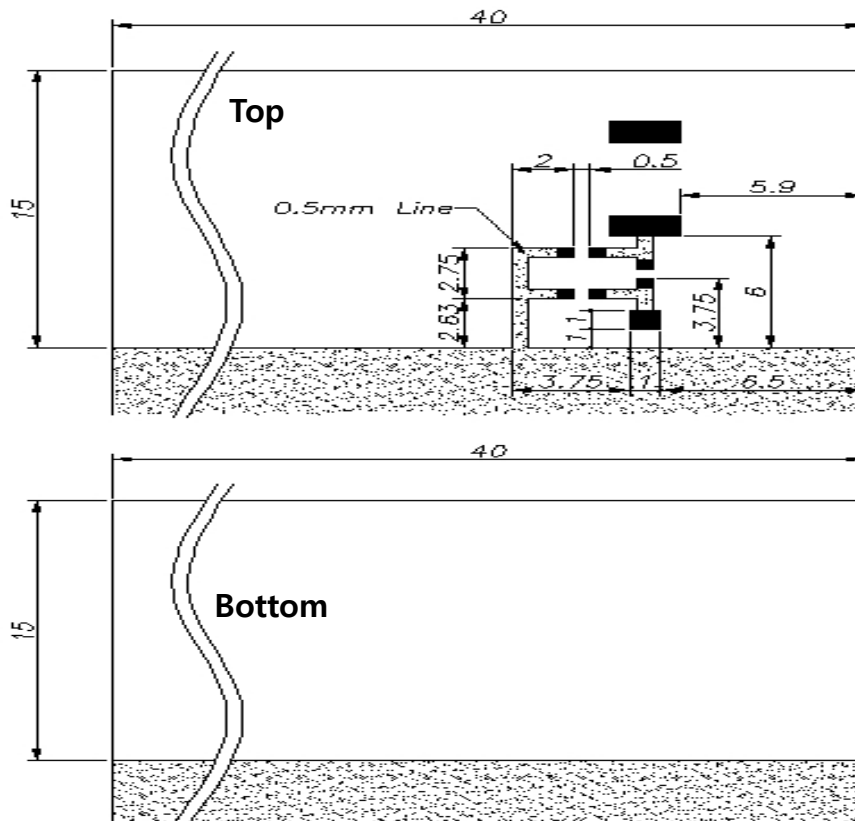
➤ Electrical Characteristics



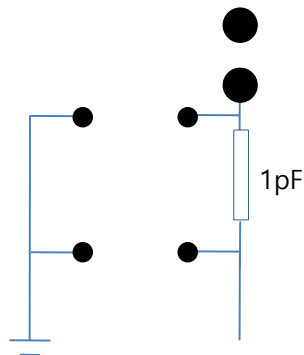
Bluetooth Chip Antenna

➤ Standard PCB Design & Matching Circuit

- ✓ Standard PCB Design (unit : mm , tolerance : ± 0.05)



- ✓ Matching Circuit



< Default Condition Equivalent Circuit >

DATA SHEETS

P/N : ABM9030B1



Bluetooth Chip Antenna

◆ P/N : ABM9030B1

➤ Features

- ✓ These **ABM9030B1** is specially designed for Bluetooth.
- ✓ **High dielectric, Low loss** antenna was achieved by **new material**.
- ✓ By utilizing PCB assembly line, it can be mass produced at **low cost**

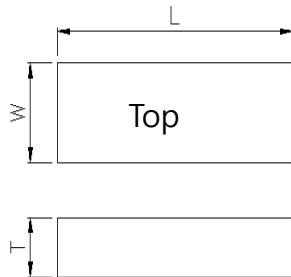
➤ Part Numbering(P/N)

A B M 9030 B 1
① ② ③ ④ ⑤ ⑥

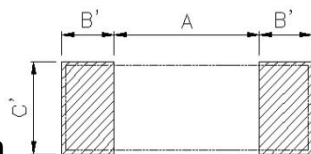
- ① Product company : A- ARRO
- ② Application : B – Bluetooth
- ③ Antenna Type : M- Monopole
- ④ Chip antenna size : 9030 -9.0 x 3.0
- ⑤ Product thickness : B - 1.5 T
- ⑥ Revision number : 1 –first product

➤ Mechanical Dimension

Chip Antenna Dimension



Chip Antenna Soldering Pad Dimension



L	9
W	3
T	1.5
A	7
B	1.0
C	3.0
B'	1.1
C'	3.2

Chip Antenna Real Product



(unit : mm , tolerance : ± 0.1)

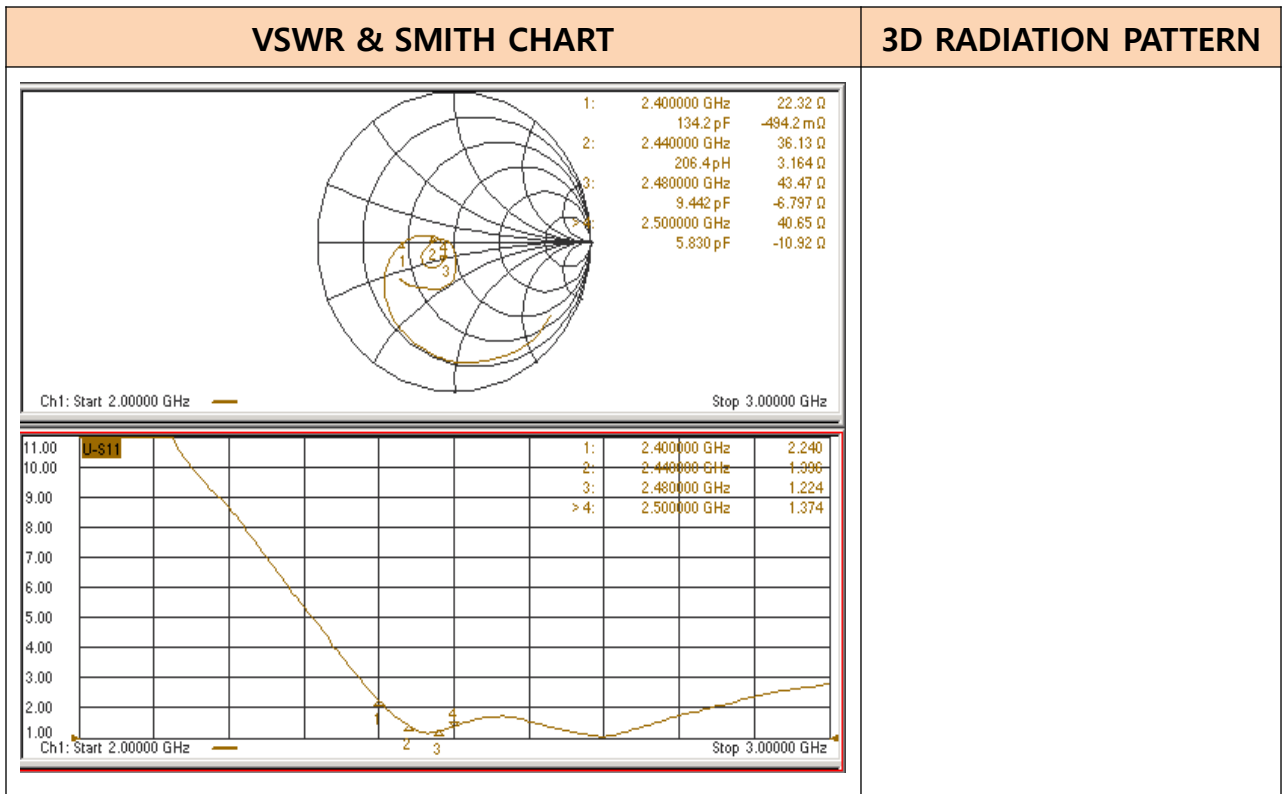
Bluetooth Chip Antenna

➤ Specification

Item		Specification				
Frequency range		2400~2483G				
VSWR		2:1 under				
Polarization		Linear				
Radiation		Omni-directional				
Impedance		50Ω				
Frequency [MHz]		2400	2420	2440	2460	2480
Gain[dBi]	Peak	0.4	0.6	0.8	0.3	0.8
	Average	-3.7	-3.5	-3.5	-4.2	-3.9
Efficiency(%)		42.9	45.1	44.6	37.8	40.9

*상기 특성은 전체 보드 사이즈가 ()x()mm인 세트상에서 측정한 결과임.

➤ Electrical Characteristics

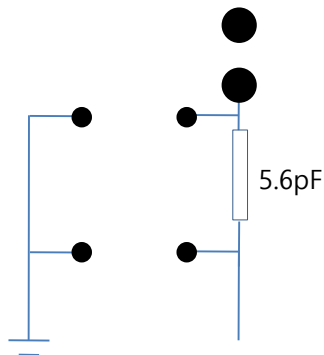


Bluetooth Chip Antenna

➤ SET PCB Design & Matching Circuit

- ✓ SET PCB Design (unit : mm , tolerance : ± 0.05)

- ✓ Matching Circuit



< Default Condition Equivalent Circuit >

DATA SHEETS

P/N : AFP45035C1



Wi-Fi PCB Antenna

◆ P/N : AFP45035C1

➤ Features

- ✓ This **AFP45035C1** is specially designed for Wi-Fi.
- ✓ **Good Performance, Low loss** antenna was achieved by **PCB**.

➤ Part Numbering(P/N)

A F P 45035 C 1

① ② ③ ④ ⑤ ⑥

① Product company : A- ARRO

② Application : F – Wi-Fi

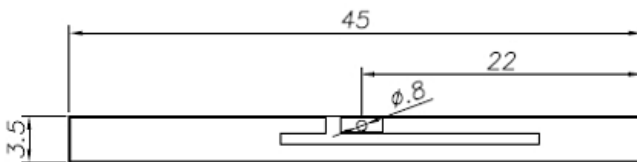
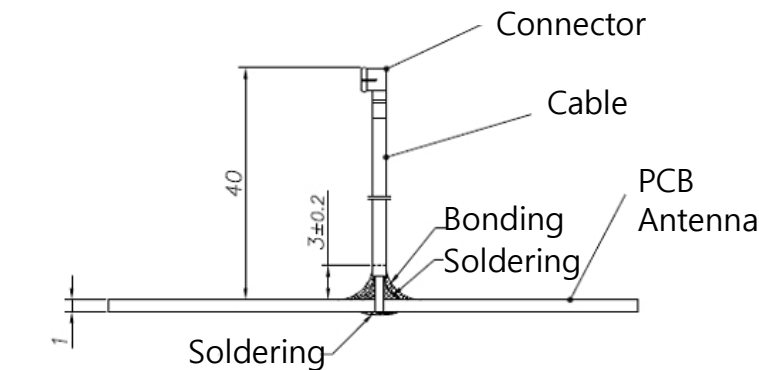
③ Antenna type : P : Patch

④ Antenna size : 45035 -45 x 3.5

⑤ Product thickness : C – 1.0 T

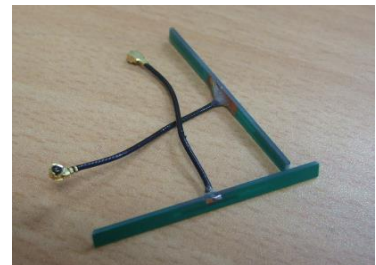
⑥ Revision number : 1 –first product

➤ Mechanical Dimension



PCB Antenna Top

Chip Antenna Real Product



납땜 시 커넥터 방향 주의



PCB Antenna Bottom

(unit : mm , tolerance : ± 0.05)

Wi-Fi PCB Antenna

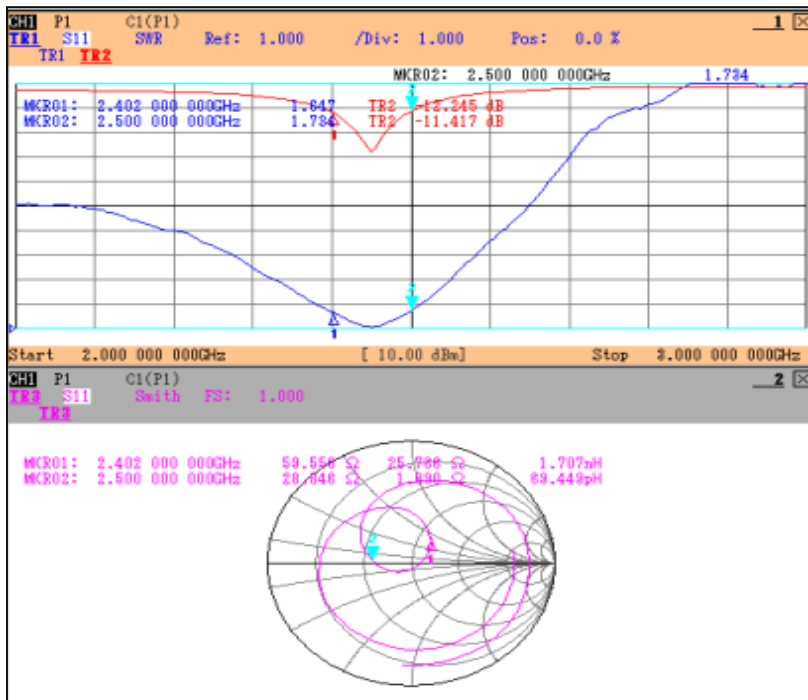
➤ Specification

Item		Specification					
Frequency range		2400~2500G					
VSWR		2:1 under					
Polarization		Linear					
Radiation		Omni-directional					
Impedance		50Ω					
Frequency [MHz]		2400	2420	2440	2460	2480	2500
Gain [dBi]	Peak	6.4	6.5	6.0	5.3	5.0	3.4
	Average	-0.5	-0.4	-0.8	-1.4	-1.6	-2.7
Efficiency(%)		89.7	91.8	83.3	72.9	68.9	53.4

*상기 특성은 실제 단말기로 측정한 결과임..

➤ Electrical Characteristics

VSWR & SMITH CHART



3D RADIATION PATTERN

