

DATA SHEETS

P/N : ABM5020B1



Bluetooth Chip Antenna

◆ P/N : ABM5020B1

➤ Features

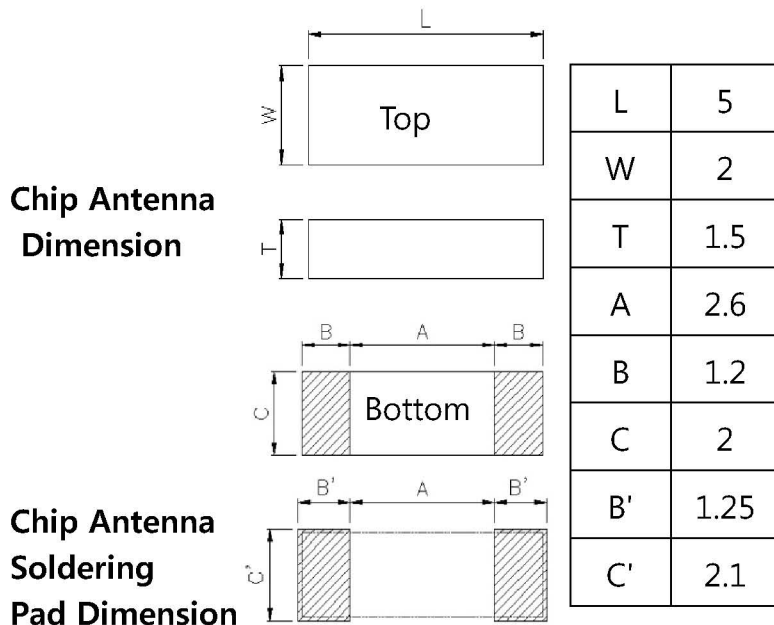
- ✓ These **ABM5020B1** is specially designed for Bluetooth.
- ✓ **High dielectric, Low loss** antenna was achieved by **new material**.
- ✓ By utilizing PCB assembly line, it can be mass produced at **low cost**

➤ Part Numbering(P/N)

A B M 5020 B 1
① ② ③ ④ ⑤ ⑥

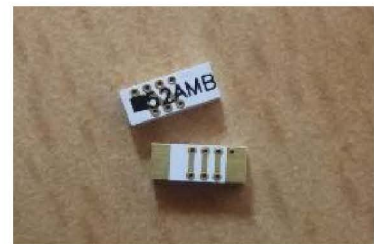
- ① Product company : A- ARRO
- ② Application : B -Bluetooth
- ③ Antenna Type : M- Monopole
- ④ Chip antenna size : 5020 -5.0 x 2.0
- ⑤ Product thickness : B - 1.5 T
- ⑥ Revision number : 1 –first product

➤ Mechanical Dimension



(unit : mm , tolerance : ± 0.1)

Chip Antenna Real Product

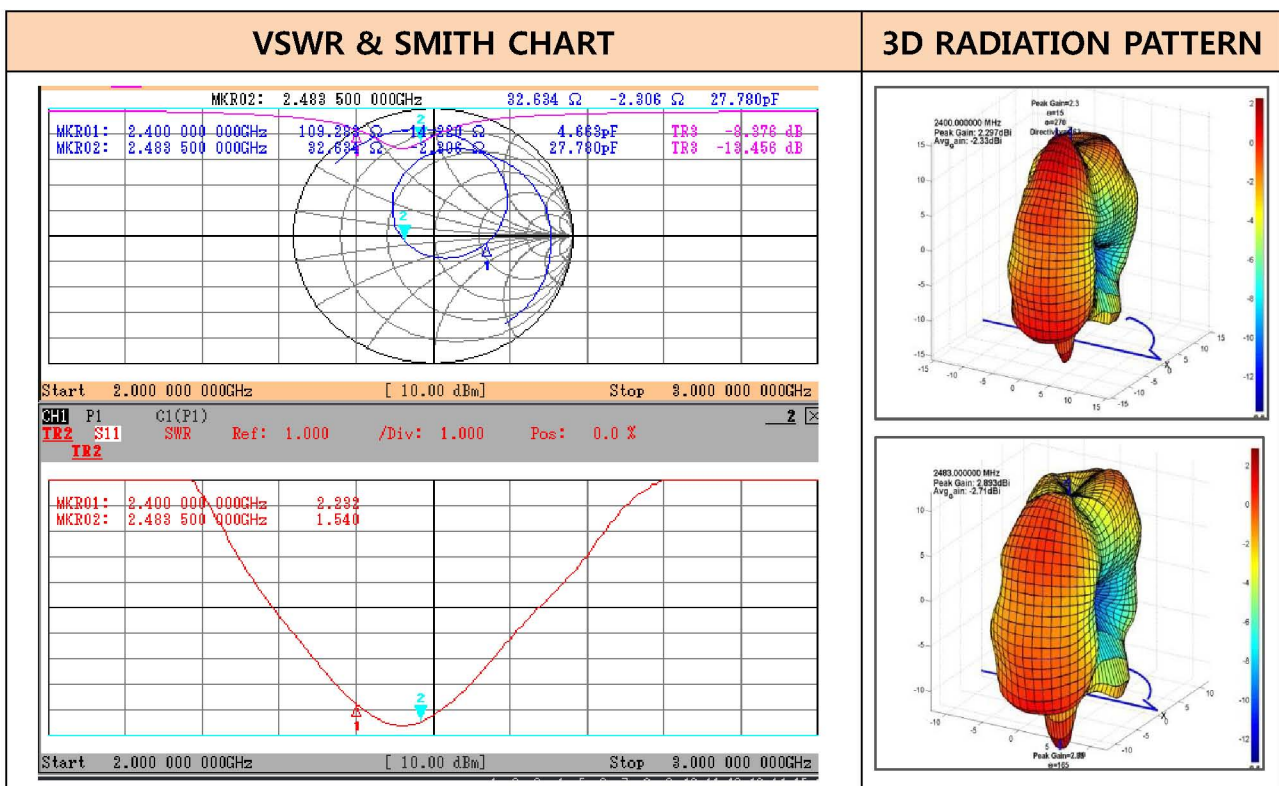


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➤ Specification

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

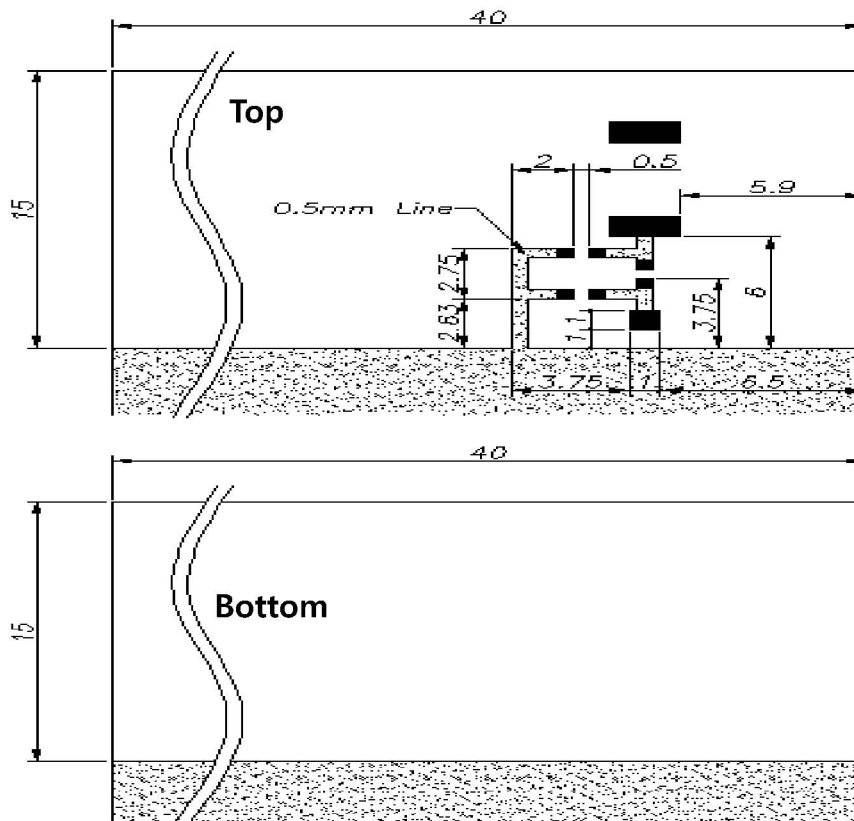
➤ Electrical Characteristics



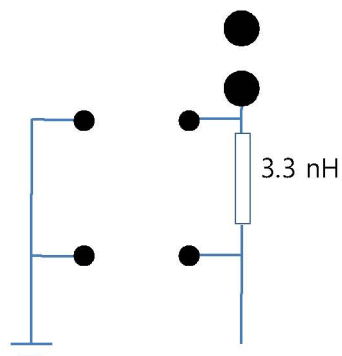
Bluetooth Chip Antenna

➤ Standard PCB Design & Matching Circuit

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



- ✓ Matching Circuit



< Default Condition Equivalent Circuit >