

Your antenna solution partner

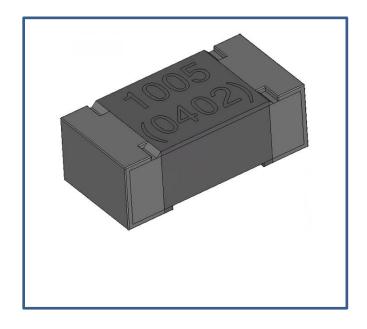
Series: SMD Chip Antenna

TECHNICAL DATA SHEET

Description: Ultra Small SMD 2.4GHz/BLE

Antenna

PART NUMBER: CT-2.4G-CHIP0402-01



Features:

- Passive Ultra Small SMD Antenna
- Wi-Fi 2.4GHz, BLE
- Size of antenna:1 x 0.5 x 0.35 mm +0.1
- Evaluation Board Size: 40 x 20 x 1.6 mm
- Total Efficiency > 78% (-1dB)
- Max.Total Efficiency: 91%(-0.37dB)
- Max Realized Gain: 2.5 dBi
- Linear Polarization
- Vertical Mount

Applications:

- In-and-Outdoor
- Bluetooth, BLE, Zigbee
- ISM 2.4GHz Radio
- IoT Applications
- Industrial Controls
- M2M applications

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION

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1



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ELECTRICAL SPECIFICATIONS

Antenna type Ultra Small form factor SMD Antenna

Frequency 2400 – 2484MHz

Nominal Impedance 50 Ω VSWR (2400 – 2484MHz) < 2.2

Return loss (2400 – 2484MHz) < -8.45 dB Realized Gain > 1.78 dBi Max Realized Gain 2.5dBi

Total Efficiency > 78% (-1dB)

Radiation Pattern Omni- Directional

Polarization Linear Power withstanding 2 W

MECHANICAL SPECIFICATIONS

Width / height / Length 1 x 0.5 x 0.35 mm

Antenna Color / Plastic material Black / UV Protected,

Connector type/Cable type SMD

TEMPERATURE SPECIFICATIONS

Operating Temperature -40° to +85° C

Ingress Protection IP30 RoHS Compliant Yes

^{*}The above results are simulated/measured with Evaluation Board.Antenna performance Depends of the PCB size, available Antenna clearance and complexity of Device. In the effort to improve our products, we reserve the right to make changes judged to be necessary.



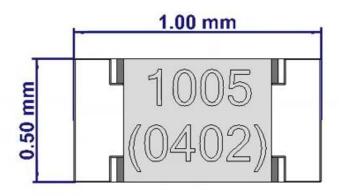
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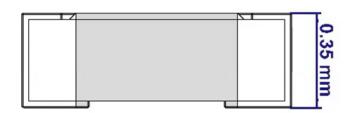
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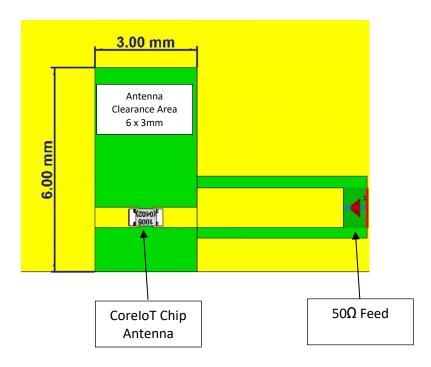
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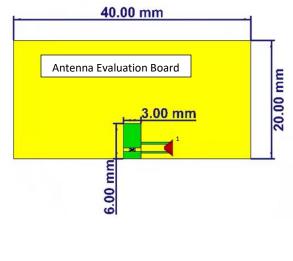
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MECHANICAL DRAWING









All dimensions are in mm.



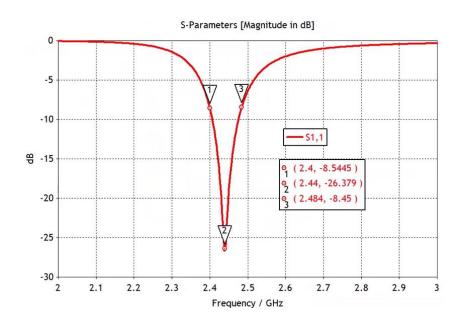
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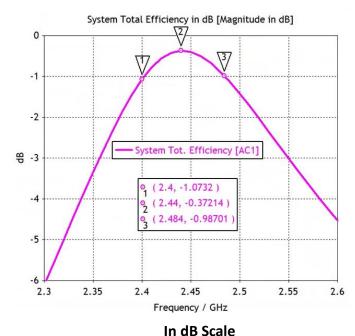
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Return Loss



Total Efficiency



System Total Efficiency [Magnitude] 0.9 0.8 0.7 0.6 System Tot. Efficiency [AC1] 0.5 2.4, 0.78106) 0.4 (2.44, 0.91788) (2.484, 0.79704 0.3 0.2 2.35 2.4 2.5 2.55 2.3 2.45 2.6 Frequency / GHz

In Linear Scale



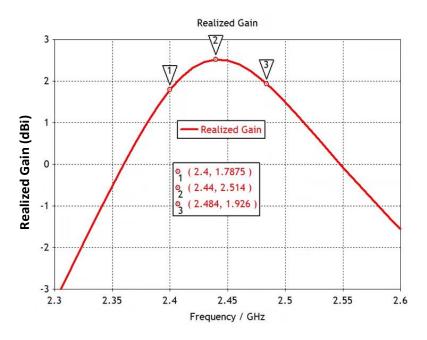
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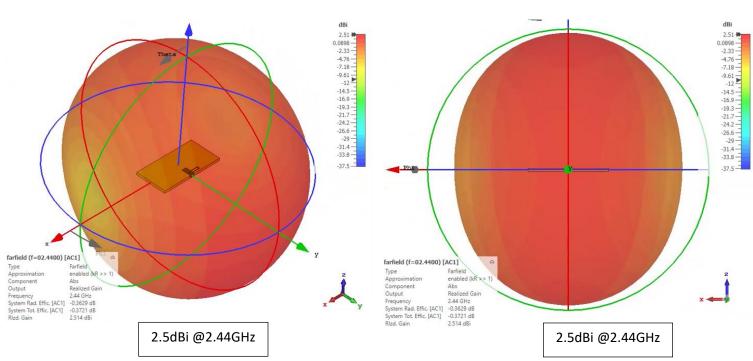
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Realized Gain And 3D Radiation Pattern





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