

Ultra-Wideband 5G NR-FR1 / Wi-Fi 6E / Wi-Fi 6 Chip Antenna

Dimensions and Package View

Package Size:

49 mm x 25.5 mm x 0.852 mm

Top View



Feed pin

GND pin

Bottom View



GND pin

Feed pin

Applications

- Access Points
- Routers
- Gateways
- Set-Top Box
- Bluetooth, BLE, GPS, ZigBee
- Multi-Band Wi-Fi equipment
- Appliances
- Other wireless devices

Key Features

- Ultra-Wide Bandwidth
- Multi-Band Surface Mount Chip Antenna
- Frequency Range: 617 MHz to 7.125 GHz
- Feed trace Impedance: 50 Ω
- Omni-directional Radiation and Coverage
- Realized Peak Gain: + 0.03 dBi to + 5.3 dBi
- Return Loss: < -6 dB
- Average Total Efficiency: > 75 %
- Small Dimension and Low Profile

Description

The MCA100 is an ultra-wideband SMT antenna for 5G NR-FR1, Wi-Fi 6E, Bluetooth, LTE, 5G, and ZigBee applications. Its wide operating frequency range starts at 617MHz and includes the new Wi-Fi band up to 7.125 GHz. The MCA100 has an omni-directional radiation pattern that allows maximum coverage. The MCA100 is an effective surface mount solution for multi-band devices. The high total efficiency of the MCA100 extends battery life as it utilizes less power to cover the same distance. Additionally, the MCA100 eliminates the need for multiple antennas by covering all standards within its wide frequency range. With its small form factor and low profile, the MCA100 is the ideal cost-efficient chip antenna for the design of a large selection of end products operating in any frequency band from 617 MHz to 7.125 GHz.

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