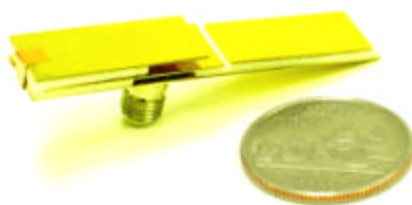


# DUAL-BAND COMPACT LOW-PROFILE ANTENNA (DCLA)



DCLA 1

## Description

A dual-band compact low-profile antenna was developed to be embedded in wireless fixed and mobile devices and is ready to be introduced into future systems including third-generation personal radios, Bluetooth third-party, and WiFi (wireless fidelity) applications. The improvement of the DCLA1 compared to other dual-band antennas is that its two bands are very wide, while the size of the antenna still remains small. In fact, this antenna covers the current 2G- as well as the 3G-system frequency bands, from 1.83 to 2.52 GHz. This wide coverage of the antenna lower band will help the 2G-to-3G personal radios transition go smoothly. In addition, the DCLA can also be used in the 5-GHz U-NII band, including the ISM band, which is the useful band for the next generation of wireless LANs

## Specifications

- Frequency 1.83-2.52 GHz / 5.05-5.39 GHz
- Typical Gain 2.5 dBi / 6 dBi
- Radiation Pattern Omnidirectional
- Polarization Linear
- Nominal Impedance 50 W
- VSWR 2:1
- Dimensions 3x10x57 mm<sup>3</sup>

## Applications

- DCS-1800
- PCS-1900
- IMT2000/UMTS
- ISM (WLAN)
- BLUETOOTH
- 802.11

