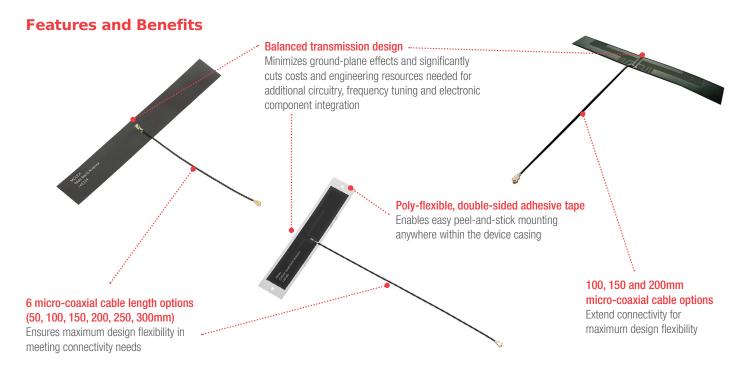
Cellular Flexible Antennas



Wide-band antenna future-proofs wireless application developments to support evolving LTE and 4G cellular technologies



Applications

Telecommunications/Networking

Infrastructure/Networking

Industrial Automation

- Smart grid concentrators
- Smart meters
- Home energy displays
- Remote sensors
- Alarm and monitoring systems

Consumer

- Home entertainment
- Home office



Networking Servers



Alarm and Monitoring Systems



Home Entertainment Systems

Cellular Flexible Antennas



Specifications

(Wide-band 698 to 960 MHz / 1.5 to 2.7 and 2.7 to 6 GHz Flexible Antenna 146234)

REFERENCE INFORMATION

Packaging: PCS film

Reference Platform (Ground size): 120 by 120 mm

PCR

Designed In: Millimeters

RoHS: Yes Halogen Free: Yes

Ground clearance: Refer to Application Specification

ELECTRICAL

Voltage (Watt): 2

Return Loss - S11(dB): <-4 (698 to 960MHz); <-5 (1.5 to 2.7 and 2.7 to 6 GHz)

Average Total Radiation Efficiency(%): Refer to Product Specification as these vary with cable

lengths for each of the 3 bands

Peak Gain (dBi): Refer to Product Specification

Polarization: Linear

Input Impedance (Ohms): 50

MECHANICAL

Pull Force: >8N min.

PHYSICAL

Thickness: 0.10mm (Flexible Material) Operating Temperature: -30 to 85°C

(Cellular Quad-band Flexible Antenna, Series 146185)

REFERENCE INFORMATION

Packaging: PE film

Mates With: Surface-mount, micro-coaxial jack

(Part Number: 73412-0110)

Designed In: mm RoHS: Yes Halogen Free: Yes Glow Wire Compliant: No

ELECTRICAL

Voltage (Watt): 2

Return Loss - S11(dB): <-4

Average Total Radiation Efficiency(%): >60 (824 to 960 MHz); >65 (1.7 to 2.7 GHz) Peak Gain (dBi): 1.4 (824 to 960 MHz); 3.0

(1.7 to 2.7 GHz) Polarization: Linear

Input Impedance (Ohms): 50

MECHANICAL

Cable Pull Test: 8.0N min.

PHYSICAL

Thickness: 0.10mm (Flexible Material) Operating Temperature: -30 to 85°C

(Multi(6)-Band Flexible Antenna, Series 105263)

REFERENCE INFORMATION

Packaging: Tray

Mates With: Micro-coaxial SMT Jack (Part Number: 73412-0110)

Use In: Any device that requires a compact and

balanced transmission antenna

Designed In: mm RoHS: Yes Halogen Free: Yes Glow Wire Compliant: No

ELECTRICAL

Voltage (Watt): 2

Return Loss - S11(dB): <-6 Average Total Radiation Efficiency(%): >66

(824 to 960 MHz); >60 (1.71 to 2.70 GHz) Peak Gain (dBi): 2.3 (824 to 960 MHz); 3.1

(1.7 to 2.7 GHz)

MECHANICAL

Cable Pull Force: 5.0N min.

PHYSICAL

Contact: Micro coaxial (<2.5mm mating height)

PCB Thickness: 0.10mm

Operating Temperature: -40 to 85°C

Ordering Information

| Series No. | Description | Frequency Bands | Dimension (mm) |
|---------------|-------------------------------------|---|---------------------------|
| 146234 | Wide-band Cellular Flexible Antenna | 698 to 960 MHz / 1.5 to 6 and 2.7 to 6 GHz | 140.00 by 20.00 by 0.10mm |
| <u>146185</u> | Cellular Quad-band Flexible Antenna | 824 to 960 MHz; 1.71 to 2.7 GHz and 3 to 6 GHz | 84.00 by 15.00 by 0.10mm |
| 105263 | Multi(6)-band Flexible Antenna | 824 to 960 MHz; 1.71 to 2.7 GHz | 106.60 by 13.00 by 0.10mm |