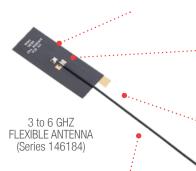
Ultra Wideband (UWB) PCB Antenna with Balanced Transmission

Transmission-balanced antennas offer high radiation efficiency for better performance and easy installation without the concerns of ground-plane effects

Features and Advantages

Double-sided adhesive tape on antenna

Enables easy peel-and-stick mounting anywhere within the device casing



Coaxial cable (50, 100, 150, 200, 250, 300mm options) to center-fed antenna with over 18N pull force

Ensures robust antenna reliability and connectivity to radio device; extends connectivity for maximum design flexibility

Markets and Applications

Industrial applications

Real-time location systems

Scanners

High-speed Data Exchanges

Medical

Patient-motion monitors

Medicine storage monitors

Medical imaging systems

Underwater, space or sports-medicine monitors

Automotive applications

Automatic target recognition systems

Consumer electronics (CE) applications

Cameras

Internet access and multimedia services

Personal navigation devices

Home networking and electronics

Easy peel and stick

Enables instant application on nonmetal surface

Ground plane-independent. dipole-style antenna

Offers balanced transmission throughout the entire connection regardless of cable length; reduces engineering resources and costs needed to mitigate PCB groundinduced radiation

High radiation efficiency antenna

Offers total efficiency values of 70% from 3.0GHz to 6.0GHz

Ground plane independent and balanced dual band

The Series 146184 UWBready dual-band antennas come in cable length options

of 50, 100, 150, 200, 250

and 300mm

Allows independent communications of vehicle directions

molex

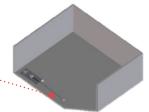
Highly compact (16.40 by 7.60mm)

Offers significant space savings while supporting high performance needs

5.8-8.5GHZ FLEXIBLE ANTENNA (Series 211996)

UFL-type Connector

Located at the tip of the antenna cable, this miniature connector mates with the application's device radio



Cable and connector can be customized

Provides design flexibility



Scanners



Home Networking and Electronics



Automatic Target Recognition Systems



Ultra Wideband (UWB) PCB Antenna with Balanced Transmission



Specifications

REFERENCE INFORMATION

Packaging: PET film

Mates With: Surface-mount, micro-coaxial jack

(Part Number: 73412) Designed In: millimeters

RoHS: Yes Halogen Free: Yes Glow Wire Compliant: No

ELECTRICAL SPECIFICATIONS (UWB) INCLUDE:

RF Power (Watt): 2 Return Loss: < -10 dB

Average Total Radiation Efficiency (%): Refer to Product Specifications

Peak Gain (dBi):Refer to Product Specifications

Input Impedance (ohms): 50

MECHANICAL

Pull Force: > 18 N (146184) Pull Force: > 8 N (211996)

PHYSICAL

Thickness: 0.31mm

Operating Temperature: -30 to +85°C (146184)

-40 to +85°C (211996)

Ordering Information

Series No.	Material	Dimension	Operating Frequency (GHz)	Cable Lengths (mm)
<u>146184</u>	Flexi material	47.00 by 17.60	3.0 to 6.0	50, 100, 150, 200, 250, 300
<u>211996</u>		16.40 by 7.60 by 0.16	5.8 to 8.5	