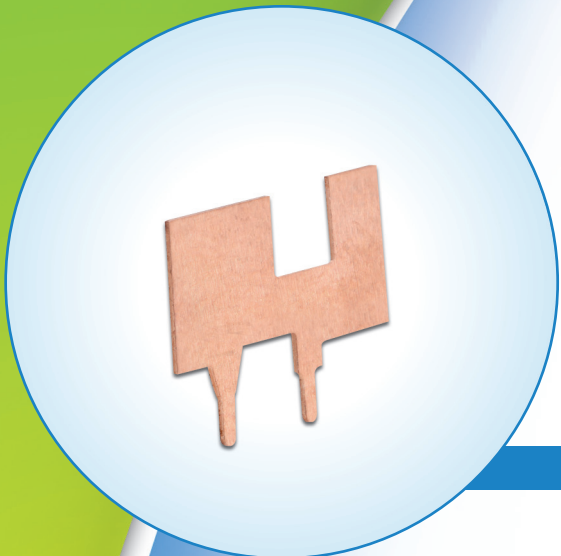




Ultra 525 Antenna

High gain, case mounted embedded antenna for easy integration

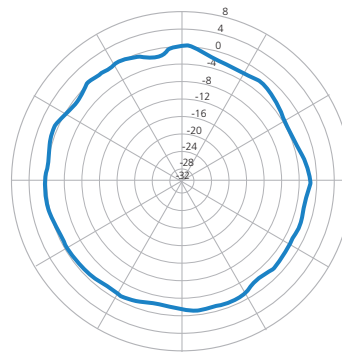
The Ultra 525 Embedded Antenna provides a high efficiency, embedded antenna solution for Wi-Fi and ISM applications in the 5 GHz band. As efficient embedded antenna solutions become the focus of next generation wireless product design, the Ultra 525 antenna provides the combination of small size with top performance. This antenna was designed to accommodate most WLAN applications, such as access points, routers, and gateways. The Ultra 525 is optimized for mounting on a printed circuit board utilizing a micro stripline RF interface. It is easily integrated into a PCB design.



ANTENNA RADIATION PATTERNS

AZIMUTH

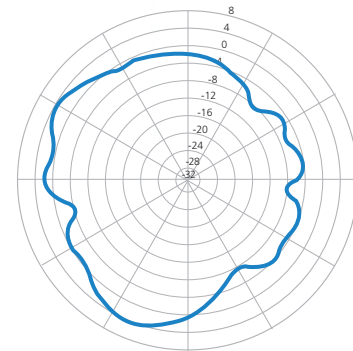
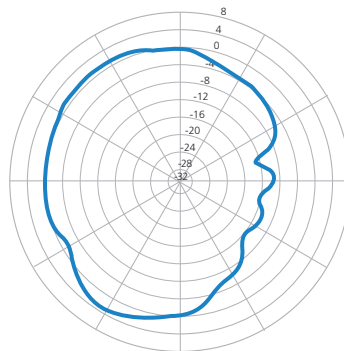
XY



XZ

ELEVATION

YZ



Airgain USA
 sales@airgain.com
 1930 Palomar Point Way,
 Suite 107
 Carlsbad, CA 92008
 +1 760 579 0200

Airgain Taiwan
 asiasales@airgain.com
 7F, No. 506, Syecian Road
 Shulin City, Taipei County 23853
 Taiwan, R.O.C.
 +2 2929 4460

FEATURES

- 802.11 a/n standard
- Optimized for PCB mounting
- 2.8 dBi peak gain

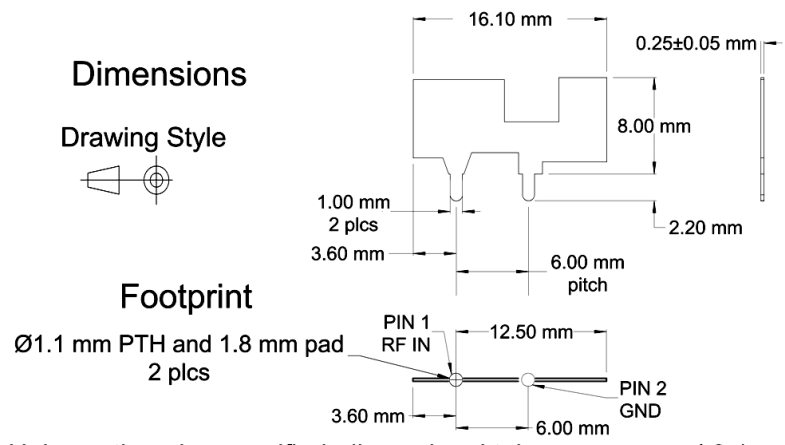
BENEFITS

- Low profile, 3.8 mm tall
- Enables quick integration
- Achieves high performance

Expanding the Range of Wireless Possibilities

PRODUCT SPECIFICATIONS	
Standard	IEEE 802.11n and 802.11a
Frequency Band	4.9 to 5.9 GHz
Peak Gain	2.8 dBi @ 5.2 GHz
VSWR	2:1
Feed Impedance	50 Ohms
Power Handling	30 dBm
Interface	2, Through hole soldering pins for 50 ohm, microstripline on PCB
Dimensions	16.1 x 8.0 x .025 (mm)
Weight	0.25 g (0.008 oz)

MECHANICAL DIMENSIONS



Unless otherwise specified, dimensional tolerances are +/-0.1mm

Figure 3
Model M5X35T Footprint and Dimensions

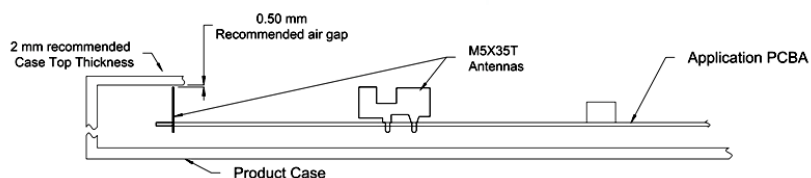


Figure 4
A side view illustration of a PCB mounted Model 525,
showing the recommended 2mm ABS Case Top thickness,
and 0.5mm airgap to antenna element.

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