



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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### Key Features

- 2.4GHz WiFi Antenna
- Miniature footprint – 35.5 x 39.9mm
- Adhesive Base
- 2dBi Gain



### General Description

The Alpha 16 is a slim, WiFi dedicated antenna. Its miniature design with a footprint size of 35.5 x 39.9mm. This antenna will fit discreetly onto most surfaces, whether that is on a work top or side of a wireless modem, you will not be stuck for mounting positions. It is supplied with a 3M adhesive base, making this antenna perfect for quick and simple installations onto a number of different surface materials such as: metal, glass, wood and plastic. More so, the use of an adhesive base takes away the need to drill holes or apply adhesive substances - simply 'peel & press' the antenna into its desired position.

The Alpha 16 is tuned to operate within the 2.4 to 2.5GHz frequencies, making this antenna perfect for WiFi, Bluetooth and Zigbee applications. The Alpha 16 achieves a reputable peak gain of 2dBi, helping to improve the short range signal transmission/reception of your WiFi modems, Bluetooth gadgets or even your low power ZigBee sensor.

The Alpha 16 is supplied, as standard, with 1m of RG174 coaxial cable, terminated with a reverse polarity SMA male connector. Custom cable lengths and alternative connector types can be supplied for volume requirements.

### Additional Considerations

- Help clear up WiFi 'dead spots'
- Miniature footprint size allows for internal / embedded integration
- Strong adhesive base for simple installation
- Omni directional radiation to ease installation
- RoHS Compliant

Rev 1.2

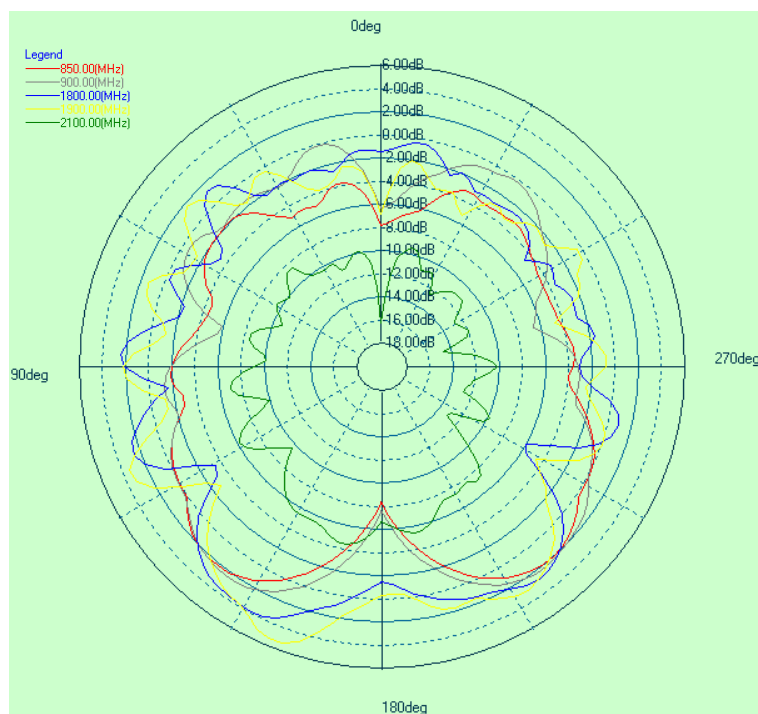
### Key Specifications - Electrical

Operating temperature:	-40 to +60°C
Impedance:	50 ohm
Gain:	2dBi
V.S.W.R:	≤2.0
Frequency range:	2400 - 2483MHz
Bandwidth:	100MHz
Polarization type:	Linear

### Key Specifications - Mechanical

Dimensions:	33.5 x 39.9 x 2mm
Cable:	RG174
Connector:	SMA
Mounting method:	Adhesive tape

### Gain vs. Frequency Graph



**UL Tested (Basingstoke, UK)**  
Part: ALPHA16/1M/SMAM/S/RP/17