

Internal Single-Band Dipole Antenna 4.9-5.85 GHz

Pulse Part Number W3593B0100



The W3593B antennas are internal PCB Single Band dipoles that cover the entire 4.9 – 5.85 GHz band. The W3593B0100 has a 100MM cable assembly with a standard IPEX connector for ease of connection on the board. With efficiency over 50% and a gain of 2dbi, the W3593 antennas are perfect internal options for WiFi applications. The wideband coverage is an ideal solution for industrial applications and data transmission and communication especially in IoT devices. The W3593B0100 is also an excellent internal solution for many applications in the Public Safety market.

Features

- Size WxLxH (7 x 45 x .8mm)
- For WiFi devices using 4.9 5.8 GHz and other applications in 4.9 5.8 GHz band
- Omnidirectional radiation pattern provides broad 360° coverage
- 10 inches cable length
- Various cable length from 3.9 to 10 inch also available
- RoHS Compliant

Applications

- WiFi in the 4.9 5.85 GHz band
- Data Transmission in IoT devices
- Industrial Applications
- Public Safety

Part Number	Cable Type	Cable Length (Inches/Meters)	Connector Type & Gender
W3593B0100	RF Coaxial 1.13mm	10/109mm	IPEX

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Europe 49 7032 7806 0 China 86 512 6807 9998



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Electrical Specifications

Frequency	Freq 1	4.9-5.85 GHz
Nominal Impedance [Ω]		50
Efficiency (Typical) Freq.		50%
VSWR	Freq 1	2:1 Max
Peak Gain Frequency		2 dBi
RL		-10 dB Min

Environmental Specifications

Operating Temperature	-40/ +85 C°
operating remperature	+0/ 100 C

Mechanical Specifications

Antenna PCB	Base Material: Single side FR4
Coaxial Cable (In/MM)	10/1.13mm RF Coaxial Cable with IPEX Connector
Weight (lbs/grams)	0.84 g
Thickness of PCB	0.8 mm
Overall Length of PCB	45 x 7 mm
Overall Length of Cable	109 mm
Mounting	Internal

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Typical Radiation Patterns





4900MHz Avg (dBi) = Peak (dBi) = Avg -3 (deg) = 5400MHz Avg (dBi) = Peak (dBi) = Avg -3 (deg) =

5850MHz Avg (dBi) = Peak (dBi) = Avg -3 (deg) =

Pulse (Suzhou) Wireless Products Co, Inc. 99 Huo Ju Road, (#29 Bldg, 4th Phase) Suzhou New District Science & Tech Industrial Park Jiangsu Province, Suzhou 215009 PR China

Tel: 86 512 6807 9998 Fax: 86 512 6809 8023



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