

# WTL2449 External Dipole Antenna

## Low-cost WLAN Dipole Antenna



WTL2449C



WTL2449S Snap-In Mount

### WTL2449 EXTERNAL DIPOLE ANTENNA

WTL 2449 External dipole antennas are designed for WLAN system requirements with radiation patterns that are omnidirectional. The antenna has center-fed sleeve dipoles and is available with RP-SMA Male (Plug) mount or snap-in mount.

#### FEATURES

- Covers 2.4/5 GHz frequency band
- Omnidirectional gain patterns
- Conformance to RoHS
- Center-fed coaxial dipole with either RP-SMA (Plug) connectors or a pigtail terminated with IPEX MHF plug connector

#### MARKETS

- 802.11 b/g/n WLAN applications
- Bluetooth®

Specifications	WTL2449S	WTL2449C
Frequency	2.4 to 2.5 GHz, 4.9 to 5.875 GHz	
Gain	2 dBi @ 2.4 GHz, 2.7 dBi @ 5 GHz	2.61 dBi @ 2.4 GHz, 2.61 dBi @ 5 GHz
Average Efficiency	75% @ 2.4 GHz, 60% @ 5 GHz	70% @ 2.4 GHz, 70% @ 5 GHz
Polarization	Vertical, omnidirectional radiation pattern	
Nominal Impedance	50 ohms	
VSWR	2:1 at 2.4 GHz band, 2.3:1 at 5 GHz band	2:1 max across the bands
Size	L70 X Ø10 (right angle), L96 X Ø10 (straight)	

Part No.	Cable type and Length	Connector
WTL2449SA1-10UFL	1.13 coaxial cable (Lc=100 mm)	IPEX MHF plug
WTL2449SA1-15UFL	1.13 coaxial cable (Lc=150 mm)	IPEX MHF plug
WTL2449CQ1-FRSMM	RP-SMA Male (plug)	

Lc : Length of the cable

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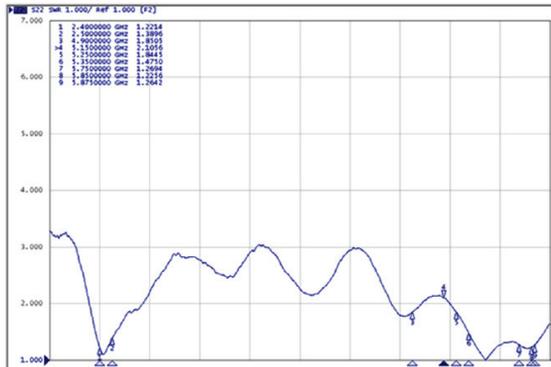
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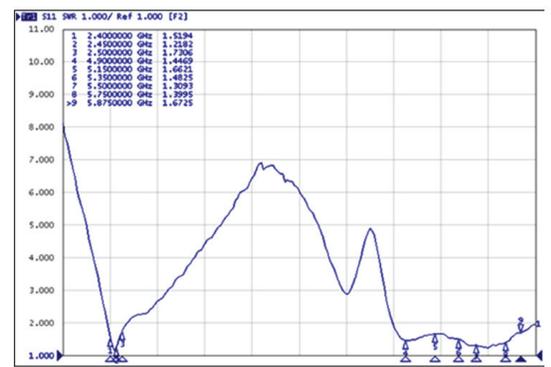
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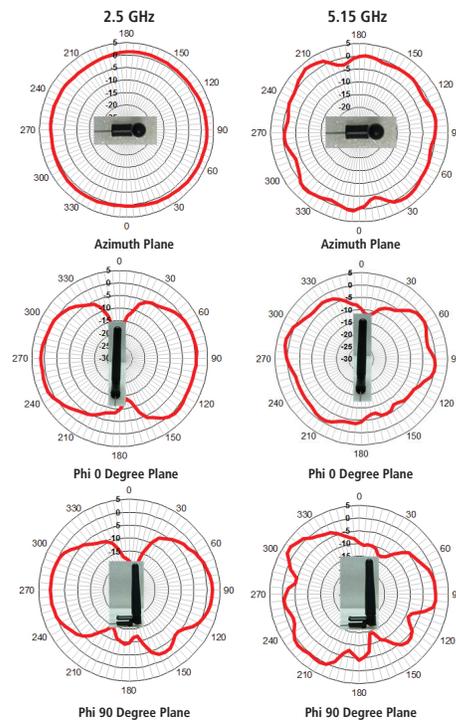
WTL2449S Return Loss Plot



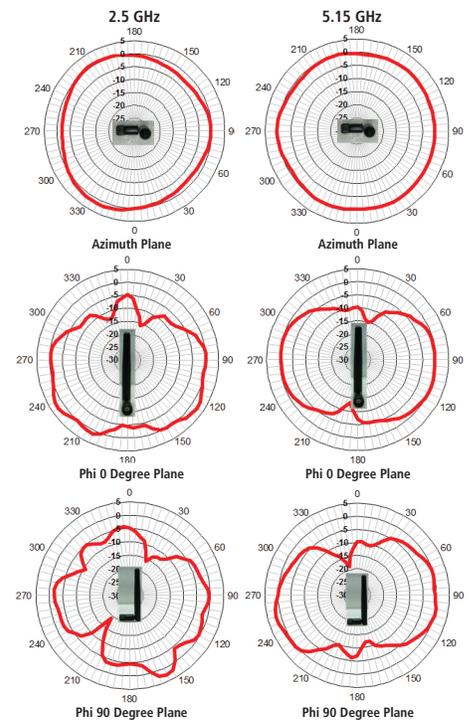
WTL2449C Return Loss Plot



WTL2449S Typical Radiation Patterns



WTL2449C Typical Radiation Patterns



ANT-DS-WTL2449 1111

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