

# DP-Series Precision Dipole Antennas

## Product Overview

TDK Precision Dipole Antennas are half-wave, fixed length precision dipoles designed to generate traceable calibrated fields or to measure electric fields at their respective frequency. The DP-series antennas offer low gain and essentially perfect cross-polarization rejection, and are typically used as a reference or standard gain antenna, or as a polarization standard.

**Dipole Test Sets** The DP-Series Dipole Antennas are designed with operating frequencies matched the operating frequencies of common mobile radio devices, and are available in sets that correspond to communication systems used in Europe, North America, and Asia, including GSM, TDMA, PCS, Bluetooth, and others. Custom frequencies are available.

## Applications

- Calibration
- Communications testing
- Antenna pattern measurements



**TDK Dipole Antennas are specifically designed as calibration reference sources for transmitting and receiving the optimum field strength within each antenna's respective frequency range.**



## Communication Applications

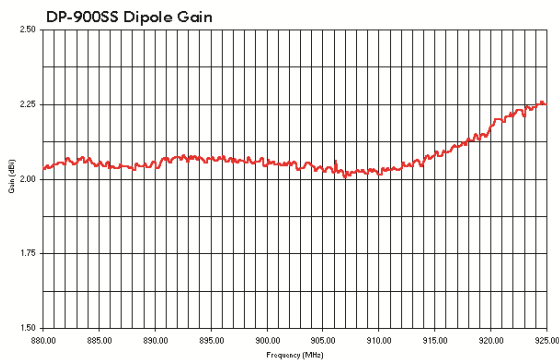
Communication System	Frequency Range	Model
GSM - NMT	453 MHz – 458 MHz	DP-450
GSM - 900	880 MHz – 925 MHz	DP-900
GSM - 1800	1710 MHz – 1785 MHz	DP-1800
GSM 1900/TDMS PCS/CDMA PCS	1850 MHz – 1910 MHz	DP-1900
TDMA (NADC)/AMPS	824 MHz – 849 MHz	DP-800
W-CDMA	1920 MHz – 1980 MHz	DP-2000
Korean CDMA	1715 MHz – 1780 MHz	DP-1700

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## Communications Applications, continued

ISM (Bluetooth)	2400 – 2483.5 MHz	DP2400
Japan - Low Band	898 MHz – 901 MHz	DP-900-J1
	915 MHz – 940 MHz	DP-900-J2
	940 MHz – 960 MHz	DP-900-J3
Japan - High Band	1429 MHz – 1453 MHz	DP-1400

## Representative Data



## Mechanical Specifications

Dimensions:	Dependent on operating frequency; approx. one-half wavelength
Weight:	Varies by model
Construction:	Available in aluminum, stainless steel or brass
RF Connector:	SMA (female)

## Electrical Specifications

Gain:	See data graph
Impedance	50 Ω

## Ordering Information

Product:	Dipole Antenna
Model Number:	DP-Series
Warranty:	1 year limited

**To place an order or to learn more about the TDK products that best meet your needs, contact your TDK sales representative:**

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Rev. 2011-08-02