

# Dinesh Micro Waves & Electronics

## PRECISION DIPOLES

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 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 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



## Communication Applications

Communication System	Frequency Range
GSM - NMT	453 MHz – 458 MHz
GSM - 900	880 MHz – 925 MHz
GSM - 1800	1710 MHz – 1785 MHz
GSM 1900/TDMS PCS/CDMA PCS	1850 MHz – 1910 MHz
TDMA (NADC)/AMPS	824 MHz – 849 MHz
W-CDMA	1920 MHz – 1980 MHz
Korean CDMA	1715 MHz – 1780 MHz
ISM (Bluetooth)	2400 – 2483.5 MHz
Low Band	898 MHz – 901 MHz
	915 MHz – 940 MHz
	940 MHz – 960 MHz
High Band	1429 MHz – 1453 MHz

## Mechanical Specifications

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

## Electrical Specifications

- Gain: See data graph
- Impedance: 50 ohms

## Environmental Specifications

- Ambient Temperature Limits:
- Operating: 0° to +40° C
- Storage: -10° to +50° C
- Humidity: Up to 95% non-condensing

### Dinesh Micro Waves & Electronics

No. 347, (C4 & C5) SLI Complex, 7th Street, Gandhipuram  
Coimbatore - 641 012, Tamil Nadu, India  
Phone: +(91)-(422)-4371112 / 2694313  
Fax: +(91)-(422)-2694313  
Mobile: +(91)-9952444222

Email: [dinesh.microwaves@hotmail.com](mailto:dinesh.microwaves@hotmail.com) , [dinesh.microwaves@airtelmail.in](mailto:dinesh.microwaves@airtelmail.in) ,  
[sathish.varadarajan@airtelmail.in](mailto:sathish.varadarajan@airtelmail.in)