

# 806-960 MHz/1710-2700 MHz Direct Mount Omnidirectional Antenna



## MULTI-BAND DIRECT MOUNT OMNIDIRECTIONAL ANTENNA

The OC80271 antenna is a wide band omnidirectional antenna covering the domestic Cellular/PCS/AWS/MDS, WiMax 2300/2500 and global GSM900/GSM1800/UMTS/LTE2600 bands. The antenna can be used in both indoor and outdoor applications complete with mast mounting hardware and includes a UV stable radome enclosure that provides years of use without degradation to either mechanical properties or aesthetics.

### FEATURES

- Applicable for both 3G and 4G solutions
- Global LTE 2600 band
- Domestic Cellular and Global GSM
- WiMax 2300/2500/2600
- Weatherproof UV stable radome
- Mast mounting hardware included
- Conformance to RoHS

### MARKETS

- Broadband wireless access service provider
- Campus, healthcare, or transportation terminals
- Stadium, industrial plants, and processing stations
- Low-to-medium density, tower mounted rural locations
- Public Safety Radio

PARAMETER	SPECIFICATION
Frequency	806 to 824 MHz, 824 to 960 MHz, 1710 to 1900 MHz, 1920 to 2170 MHz, 2300 to 2500 MHz, 2500 to 2690 MHz
Max Gain	806 to 960 MHz - 1.0 dBi, 1710 to 2700 MHz - 5.0 dBi
Average Efficiency	806 to 960 MHz - 72%, 1710 to 2700 MHz - 79%
3 dB Beamwidth (E-plane)	806 to 960 MHz - 93°, 1700 – 2200 MHz - 75°, 2500 – 2700 MHz - 95°
3 dB Beamwidth (H-plane)	360°, Omnidirectional
Polarization	Linear, Vertical
Nominal Impedance	50 Ohms
VSWR	806 to 960 MHz - < 2.5:1, 1710 to 2700 MHz - < 2.0:1
Power	20 watts
RF Connector	N- Type (M)
Mount Style	Mast/pole mount (Upright position only)
Radome	Polycarbonate, UV, White
Material Substance Compliance	ROHS Compliant
Operating Temperature	-30°C to +70°C
Storage Temperature	-40°C to +85°C
Dimensional (Ht x OD)	196 x 24.5 mm (7.7" x 1")
Weight	120g

### CONNECTORS

MODEL NUMBER	CONNECTOR
OC80271-FNM	Type N male
OC80271-FNF	Type N female

## global solutions: local support™

Americas: +1.847.839.6907  
IAS-AmericasEastSales@lairdtech.com

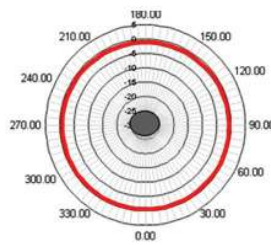
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IAS-EUSales@lairdtech.com

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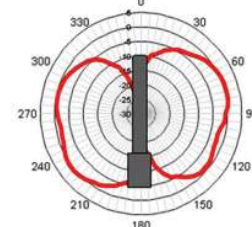
**806-960 MHz/1710-2700 MHz**  
**Direct Mount Omnidirectional Antenna**

**TYPICAL RADIATION PATTERNS**

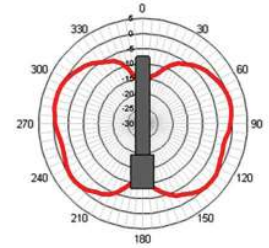


Azimuth Plane

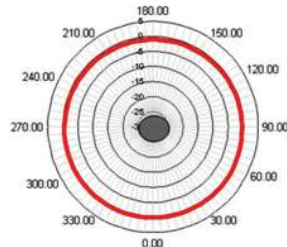
**806 MHZ BAND**



Phi 0° Plane

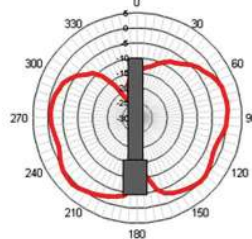


Phi 90° Plane

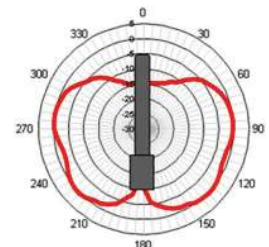


Azimuth Plane

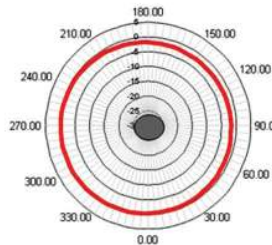
**960 MHZ BAND**



Phi 0° Plane

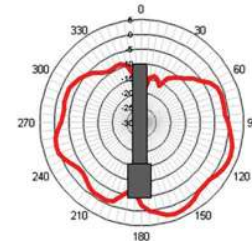


Phi 90° Plane

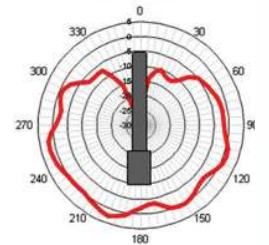


Azimuth Plane

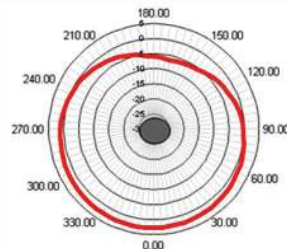
**1710 MHZ BAND**



Phi 0° Plane

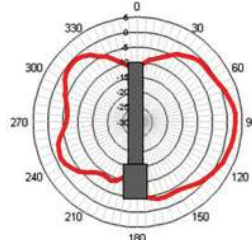


Phi 90° Plane

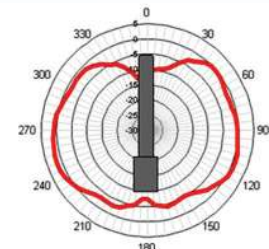


Azimuth Plane

**2500 MHZ BAND**



Phi 0° Plane



Phi 90° Plane

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