



High Gain All Band Cellular LPDA Antenna

Operating Frequency: 694-1000MHz & 1500-3000MHz

Product Code: LPDA-A0092



This high gain wideband directional antenna covers all international cellular, mobile and wireless data bands including GSM 900/GSM1800/UMTS/LTE bands as well as extended cellular and WiMAX bands such as European/USA "Digital Dividend bands" and 2.3-2.7GHz licensed and unlicensed data bands. Its configuration is suitable for various wireless communications systems.

Features:

- High gain
- Broadband – all cellular/LTE/Wireless data bands in 694MHz-3GHz range
- Easy alignment with main beam around 50 degrees wide
- Tremendous improvement on reliability of wireless data
- Robust and weatherproof
- Four year track record in all climate conditions from Nordic to desert to tropical

Application areas:

- Fixed wireless voice and data applications
- M2M communications (ATMs, financial data processing, telemetry etc)
- Extending wireless data to weak signal areas (can extend connectivity range by factor of 3 or more)
- Enables rural and remote wireless service provision.

| Standard | Frequency (MHz) |
|--|------------------------|
| US Digital Dividend 700 MHz band | 694 - 820 |
| European Digital Dividend 800 MHz band (LTE) | 790 - 862 |
| TDMA/CDMA/AMPS | 824 - 894 |
| SM "GSM 900" | 870 - 960 |
| TACS Europe and Asia only | 871 - 949 |
| GSM 1800 / PCS/ PCN | 1710 - 1880 |
| GSM "GSM1900" USA and Canada only | 1850 – 1990 |
| DECT | 1880 - 1900 |
| PHS Japan, Taiwan and China only | 1895 - 1918 |
| UMTS | 1990 - 2170 |
| Licensed WiMAX/LTE bands | 2300 - 2400 |
| International ISM2.4 GHz band | 2400 - 2500 |
| Licensed WiMAX/LTE bands | 2500 - 2700 |
| 3G Extension Band | 2500 – 2690 |



Specifications:

Product Code: A-LPDA-0092
EAN: 6009693810556
Features: 7 m HDF195 with SMA(m) connector

Electrical
Frequency (MHz) 694 - 1000MHz
 1500 - 3000MHz

Gain 11dBi (± 0.5 dB)
VSWR <2.0:1

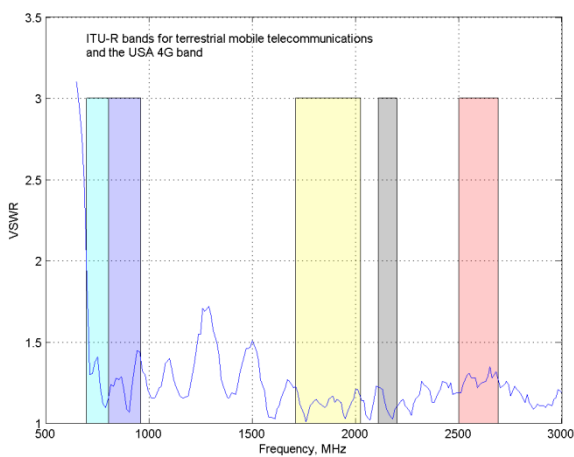
Feed power handling 10W
E-Plane 3 dB beamwidth 50° (± 5 °)
H-Plane 3 dB beamwidth 55° (± 5 °)
Front to back (F/B ratio) 20dB (± 3 dB)
Nominal input impedance 50 Ohm
Polarisation Linear

Environmental
Wind Survival 160km/h
Temperature Range (Operating) -40°C to +70°C
Shock 40G at 10 msec
Thermal Shock -40°C to +70°C: 10Cycles

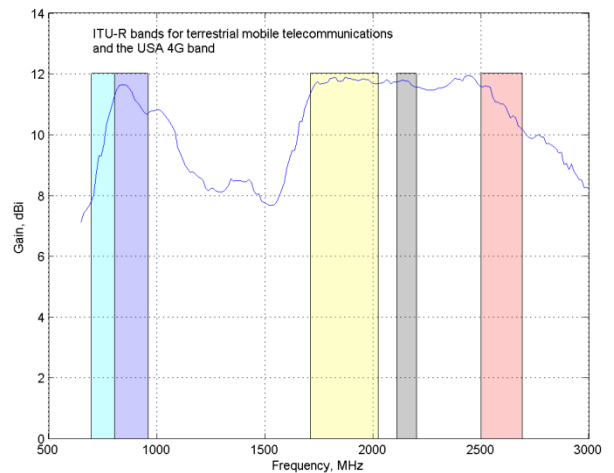
Water Ingress Rating IP65 (NEMA 4X)

Mechanical
Dimensions (lxwxh) 1100 x 180 x 60mm
Weight 1.29kg
Mounting bracket Stainless steel up to 60 mm poles

VSWR and Gain Patterns

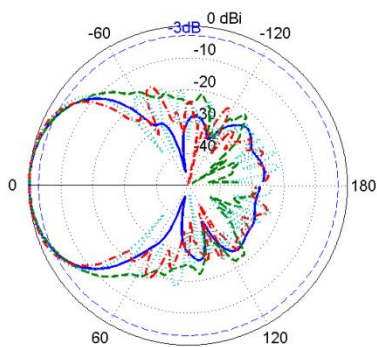


VSWR

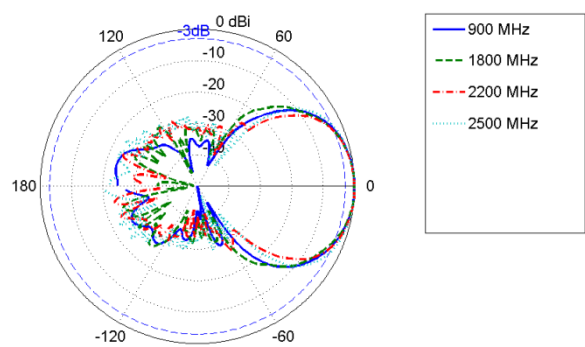


Gain

Radiation Patterns



E-Plane



H-Plane