



High Gain All Band Cellular LPDA Antenna

Operating Frequency 694-1000MHz & 1500-3000MHz
Product Code A-LPDA-0092



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 7 m HDF195 with SMA(m) connector

Electrical

Frequency (MHz) 694 - 1000MHz 1500 - 3000MHz
Gain 11dBi (±0.5dB)
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 (±3dB)
Nominal input impedance 50 ohm
Polarisation Linear

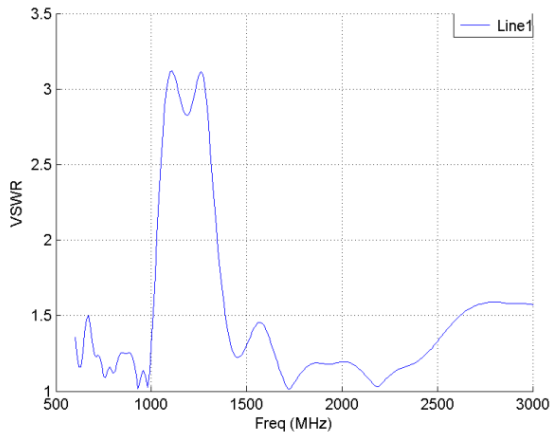
Environmental

Wind Survival 160km/h
Temperature Range (Operating) -20°C to +70°C
Shock 40G at 10 msec
Thermal Shock -20°C to +70°C: 10Cycles
Water Ingress Rating IP65 (NEMA 4X)

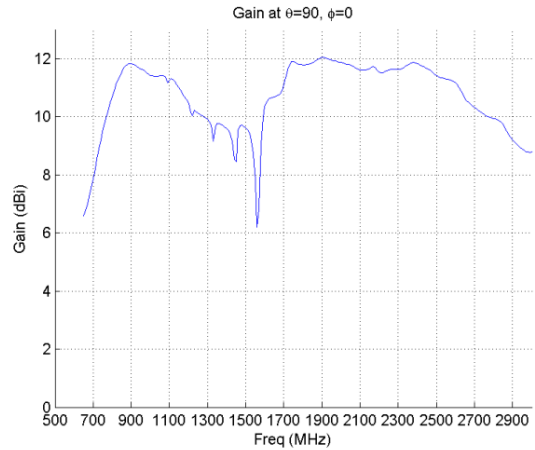
Mechanical

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

VSWR and Gain Patterns

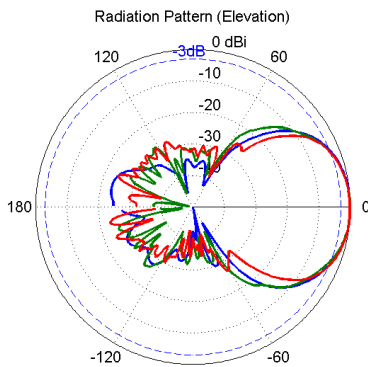


VSWR

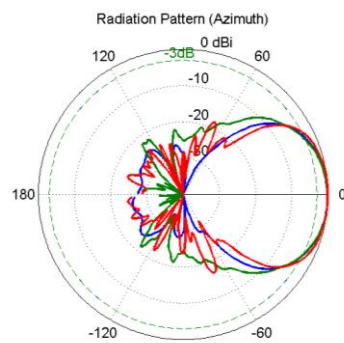


Gain

Radiation Patterns



E-Plane



H-Plane