



Broadband Directional Antenna

680 - 2900 MHz

Product code: Product Code LPDA-A0020



This medium gain wideband directional antenna covers the LTE 700 and 1700 MHz bands used in North America, LTE 900, 1800 and 2600 MHz bands used in Europe, LTE 1800 and 2600 MHz bands used in Asia, the GSM 900, GSM1800 / UMTS and WLAN2400 bands. Its configuration is suitable for various cellular communication systems as well as the 2.4 GHz ISM band. When used for LTE, two LPDA-A0020 antennas can be mounted in space at 90° to each other using the LTE Poynting bracket.

Features:

- Broadband
- Covers various international cellular bands
- Covers all the LTE bands
- Compact and suitable for indoor and outdoor applications

Application:

This antenna provides telephone communications for the following:

<u>Standard</u>		<u>Frequency (MHz)</u>
LTE		700, 900, 1700, 1800, 2600 bands
TACS	Europe and Asia only	871-949
TDMA/CDMA/AMPS		824-894
SM "GSM 900"		870-960
PDC	Japan only	810-956
EGSM		806-869



GSM 1800/PCS./PCN	1710-1880
DECT	1880-1900
GSM	1850-1990
3G/HSDPA	1990-2170
WiFi	2400-2500

Specifications:

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Electrical:

Gain (typical)	8 dBi (+-0.5 dB)
Gain (min over the band)	7.0 dBi (+-0.5 dB)
Frequency	680 - 2900 MHz
VSWR	< 2.0:1
Front to back ratio (F/B ratio)	> 20 dB (\pm 0.5 dB)
Feed power handling	10 W
E-plane 3 dB beamwidth at 800 MHz	64° (\pm 2°)
H-plane 3 dB beamwidth at 800 MHz	72° (\pm 2°)
Nominal input impedance	50 Ohm
Connector	SMA (f)
Polarisation	Linear (vertical or horizontal)

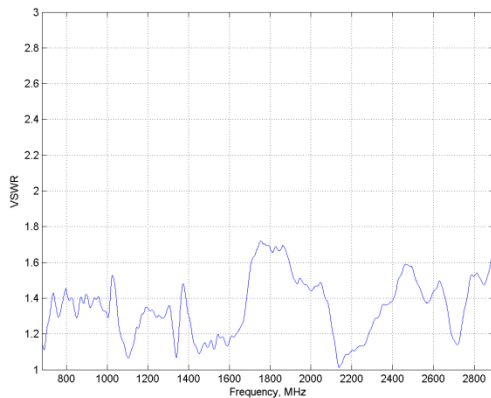
Mechanical:

Dimensions (l x w x d)	380 x 320 x 90mm
Weight	605g excluding bracket kit
Mounting	Pole or wall mount

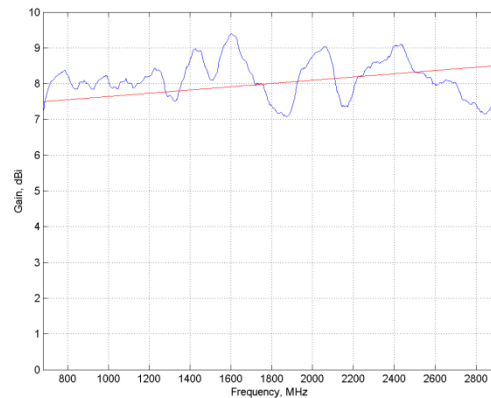
Environmental:

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

VSWR and Gain Pattern:



VSWR



Gain