



13 dBd HD Deepwave Antenna, Elliptical (H) Pattern, 740 - 870MHz

Model: 104DW-81-15-xx-xx
DS040365-1B



Description

- The Deepwave Series colinear antennas are designed for LTE/GSM applications where a durable and high-performance antenna is required.
- The center fed dipole design and feed network gives a stable radiation pattern across a wide bandwidth, allows tilted beam designs to be effectively employed without large pattern distortions, and fills the lower pattern nulls.
- Reflectors are employed to give the antenna an elliptical radiation pattern in the azimuth plane.
- High quality materials and manufacturing techniques are employed to ensure that the antenna has excellent intermodulation performance & wide bandwidth characteristics for multi-channel trunked radio communication systems.

Electrical Specifications

Parameter	Value
Frequency	740 - 870 MHz
Max. Input Power	600 W
Polarization	Vertical
Peak Instantaneous Power (PIP)	25 kW
3 dB Beamwidth, E-Plane	$3^{\circ} \pm 1^{\circ}$
3 dB Beamwidth, H-Plane	$68^{\circ} \pm 2^{\circ}$
Impedance	50 Ω
Gain	13 dBd (15.2 dBi) Nominal
VSWR	< 1.5:1
Passive Intermodulation	-153 dBc (3rd Order, 2 x Tx @ 43 dBm)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)



Mechanical Specifications

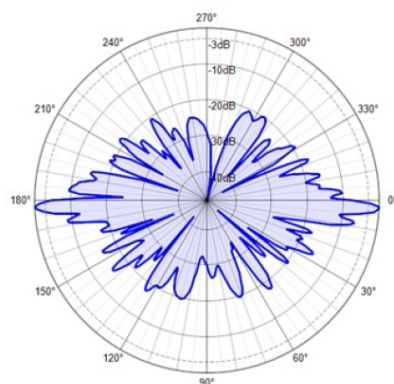
Parameter	Value
Connection(s)	104DW-81-15-xx-xx: 7/16 DIN Female; 104DW-81-15-xx-xx: 4.3/10 DIN Female
Materials	Antenna Base: Aluminum LM25 Shroud: GRP tube 128 mm dia. Radiating element: Brass
Mounting	Flanged base with 6 hole fixing on 190.5mm PCD
Length	5244 mm (206.5 in)
Wind Load	1264 N (160 km/h)
Weight	40 kg (88.18 lb)

Environmental Specifications

Parameter	Value
Survival Wind Speed	240 km/h
Ingress Protection	IP56

Model	Description
104DW-81-15-00-D7	0° Tilt, 7/16(f)
104DW-81-15-01-D7	1° Tilt, 7/16(f)
104DW-81-15-02-D7	2° Tilt, 7/16(f)
104DW-81-15-03-D7	3° Tilt, 7/16(f)
104DW-81-15-04-D7	4° Tilt, 7/16(f)
104DW-81-15-05-D7	5° Tilt, 7/16(f)
104DW-81-15-00-D4	0° Tilt, 4.3/10(f)
104DW-81-15-01-D4	1° Tilt, 4.3/10(f)
104DW-81-15-02-D4	2° Tilt, 4.3/10(f)
104DW-81-15-03-D4	3° Tilt, 4.3/10(f)
104DW-81-15-04-D4	4° Tilt, 4.3/10(f)
104DW-81-15-05-D4	5° Tilt, 4.3/10(f)
91-00-104A-1	Pole Mount Adaptor

E-PLANE, 805 MHZ



H-PLANE, 805 MHZ

