

9 dBd HD Omni Deepwave Antenna

380–430 MHz

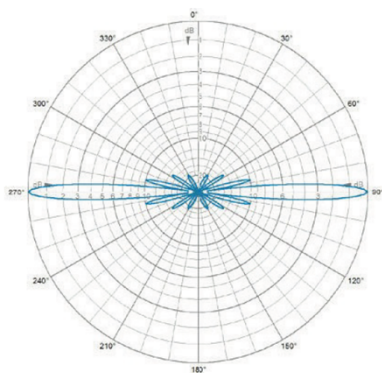
Model: 104DW-56-9-xx-xx
DS040370-1B



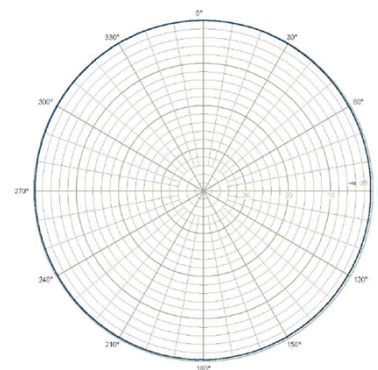
Description

- The Deepwave Series colinear antennas are designed for UHF / TETRA applications where a durable and high-performance antenna is required.
- The center-fed dipole design and feed network give a stable radiation pattern across a wide bandwidth and allow tilted beam designs to be employed without large pattern distortions.
- High-quality materials and manufacturing techniques ensure excellent intermodulation performance and wide bandwidth characteristics for multi-channel trunked radio communication systems.

E-PLANE, 405 MHz, 0° TILT



H-PLANE, 405 MHz



Electrical Specifications

Parameter	Value
Frequency	380 – 430 MHz
Max. Input Power	600 W
Omni Deviation	$< \pm 1$ dB
Polarisation	Vertical
Peak Instantaneous Power (PIP)	25 kW
3 dB Beamwidth, E-Plane	$8^\circ \pm 1^\circ$
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	9 dBd (11.2 dBi)
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-56-9-xx-D7: 7/16 DIN Female; 104DW-56-9-xx-D4: 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	5244mm (206.5 in)
Wind Load	946 N (160 km/h)
Weight	32 kg (70.55 lb)

Environmental Specifications

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

Model	Description
104DW-56-9-00-D7	0° Tilt, 7/16(f)
104DW-56-9-02-D7	2° Tilt, 7/16(f)
104DW-56-9-04-D7	4° Tilt, 7/16(f)
104DW-56-9-06-D7	6° Tilt, 7/16(f)
104DW-56-9-08-D7	8° Tilt, 7/16(f)
104DW-56-9-10-D7	10° Tilt, 7/16(f)
104DW-56-9-12-D7	12° Tilt, 7/16(f)
104DW-56-9-00-D4	0° Tilt, 4.3/10(f)
104DW-56-9-02-D4	2° Tilt, 4.3/10(f)
104DW-56-9-04-D4	4° Tilt, 4.3/10(f)
104DW-56-9-06-D4	6° Tilt, 4.3/10(f)
104DW-56-9-08-D4	8° Tilt, 4.3/10(f)
104DW-56-9-10-D4	10° Tilt, 4.3/10(f)
104DW-56-9-12-D4	12° Tilt, 4.3/10(f)
91-00-104A-1	Pole Mount Adapter