

Technical data

DUAL POLARIZATION

ANTENNA 7/8 GHz 06M

HIGH PERFORMANCE

Type: HAE0806DPD84, HAE0806DPB84,
HAE0806DUD84, HAE0806DUB84

Short description

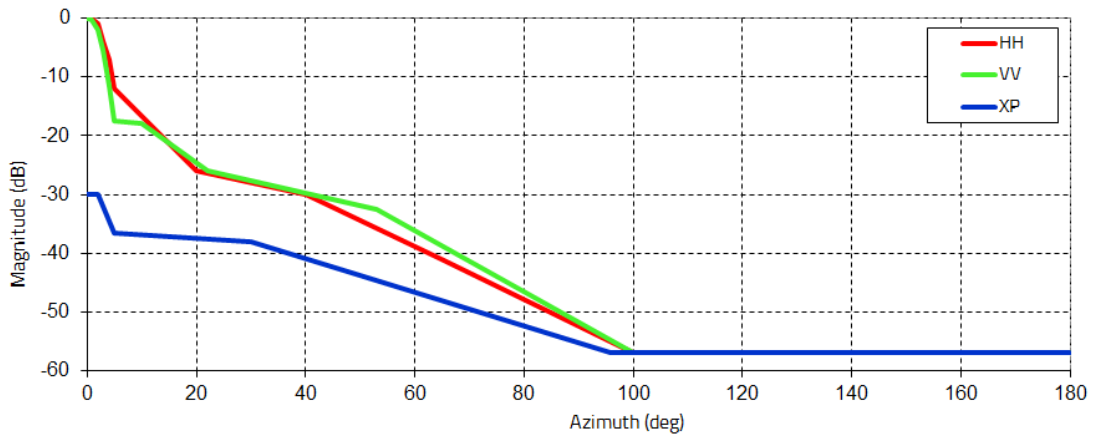
This new generation HAE-antenna with ETSI Class 3 radiation performance gives great efficiency and improved return loss in combination with reduced weight. The antenna can be mounted separately using LEAX Arkivator Telecom antenna mount. It can also be supplied in customized design, for example being adapted for direct mount on radio links. LEAX Arkivator Telecom antennas are all RoHs compliant.

Electrical data

Frequency range	7.1 – 8.5 GHz
Gain, low-band	31.1 dBi
Gain, mid-band	31.6 dBi
Gain, high-band	32.2 dBi
Half power beam width	4.2 deg
Cross-polar discrimination	30 dB
Front-to-back ratio	58 dB
VSWR/Return Loss	1.43:1 / 15.0 dB
Isolation	35 dB
ETSI compliance	Class 3
Polarization	Dual
Output flanges	PDR84/PBR84/UDR84/UBR84
Associated NSMA file	907-HAE0806-D.adf

Radiation pattern envelope (RPE)

angle (°)	H-pol (dB)	angle (°)	V-pol (dB)	angle (°)	X-pol (dB)
0	0	0	0	0	-30
0.3	0	0.3	0	2	-30
0.8	-0.2	0.8	-0.3	5	-36.5
2	-1	2	-2	30	-38
3	-4	3	-5.5	96	-57
4	-7	4	-11.5	180	-57
5	-12	5	-17.5		
20	-26	10	-18		
40	-30	22	-26		
65	-41	53	-32.5		
100	-57	100	-57		
180	-57	180	-57		



Mechanical data

Size	0.6 m
Depth	439 mm
Weight including mounting kit	8.1 kg
Shipping weight	12.0 kg
Shipping dimensions	765 mm x 780 mm x 345 mm
Packaging type	Standard Cardboard box
Quantity on one pallet	12 antennas/EUR pallet
Radome	UV Stabilized PC Flat
Antenna colour	NCS S2502 R Grey
Temperature, operational	-45 to +55 °C
Relative humidity	15 to 100%
Wind load, operational	55 m/s (200 km/h)
Wind load, survival	70 m/s (250 km/h)
Mounting pipe diameter	50-120 mm
Panning performance, in azimuth	±15°
Panning performance, in elevation	±15°
Ice load (713 kg/m ³)	25 mm

Loading to mounting pole @Survival Wind Speed:

Fa: Max Axial Force	1149 N
Fs: Max Side Force (without radio equipment)	159 N
M: Max Torque (at pole ϕ 76 mm)	292 Nm

Drawing 7 - 11 GHz Dual Polarized Antenna

