TECHNICAL DATA
ANTENNA 8GHz 1.2m HIGH PERFORMANCE
Type: HAA0812_00

SHORT DESCRIPTION

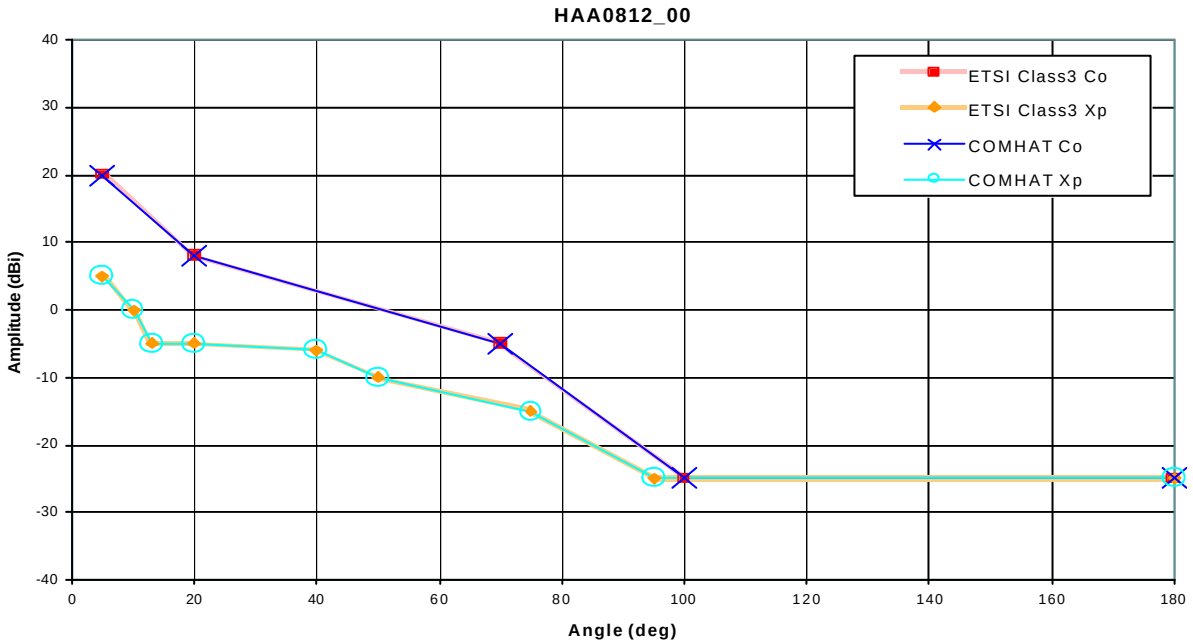
This antenna combines high RF-performance with low profile and weight. The antenna can be mounted separately using Comhat Antenna Mount. It can also be supplied in customized design, for example being adapted for direct mount on radio links.
Note: Product information subject to change without notice.

ELECTRICAL DATA

Frequency Range	7.75 – 8.5 GHz
Gain (Low-band)	37.0 dBi
(Mid-band)	37.3 dBi
(High-band)	37.6 dBi
Half Power Beamwidth	2.3 °
Cross-Polar Discrimination (within a –1dB co-polarised contour)	30 dB
Front-to-Back Ratio	57 dB
VSWR/Return Loss	1.35:1 / 16.5 dB
ETSI Compliance	EN 300 833 Nov 2002 Class 3
Polarisation	Vertical/Horizontal
Output Flange (Standard)	PBR84

RADIATION PATTERN ENVELOPE (RPE)

Copolar								
Gain isotropic	21	15	1	1	-7	-22	-22	dBi
Angle vs. Main lobe	5	8	20	31	73	100	180	deg
Crosspolar								
Gain isotropic	0	-18	-19	-23	-27	-30	-30	dBi
Angle vs. Main lobe	5	10	39	41	56	100	180	deg



Actual radiation patterns for production antennas will not have any peak exceeding the RPE by more than 3 dB.

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8GHz

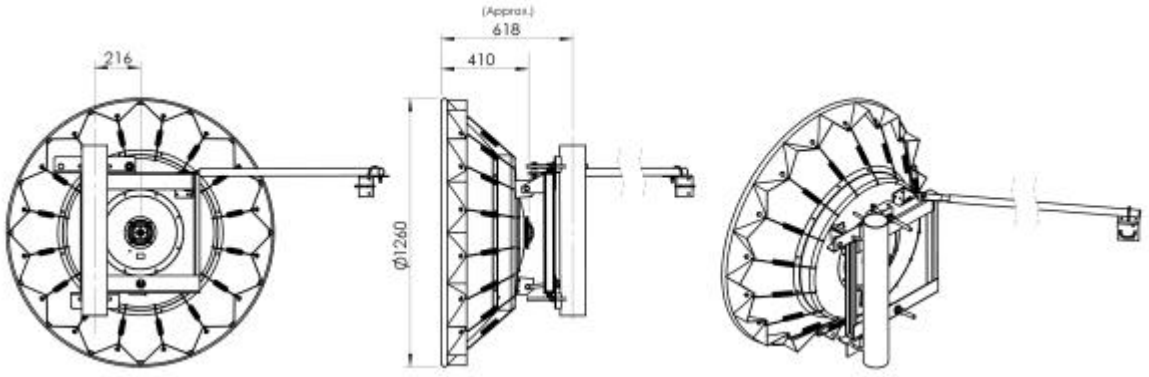
Comhat Standard 1.2 m

901-HAA0812_00-PA4

MECHANICAL DATA

Size	1.2 m
Depth	410 mm
Weight	25.5 kg
Antenna colour	NCS 1502R Light grey
Radome	Clothe, Scanplan 5350
Weight / Mast Mount	16 kg
Shipping dimensions / Antenna with Mast Mount	1320 mm x 1320 mm x 920 mm
Shipping weight / Antenna with Mast Mount	100 kg
Temperature (operational)	-40 to +55 °C
Relative humidity	15 to 100%
Wind load: Operational	50 m/s (180 km/h)
Survival	70 m/s (250 km/h)
Ice load (900 kg/m^3)	25 mm
Panning performance: (in azimuth)	±20°
(in elevation)	±10°

DRAWING



For interface details see separate drawing: 902-HAAXXXX_XX

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