FIA 02-710DW

E-band 0.75 ft (20cm) dual pol antenna with external Ortho mode transducer



General Specifications

Diameter	0.2 m
Standard Colour	RAL 7035
Shroud	Low Profile - Deep dish type
Antenna Input	Integrated, according to Customer's specifications
Polarization	Dual

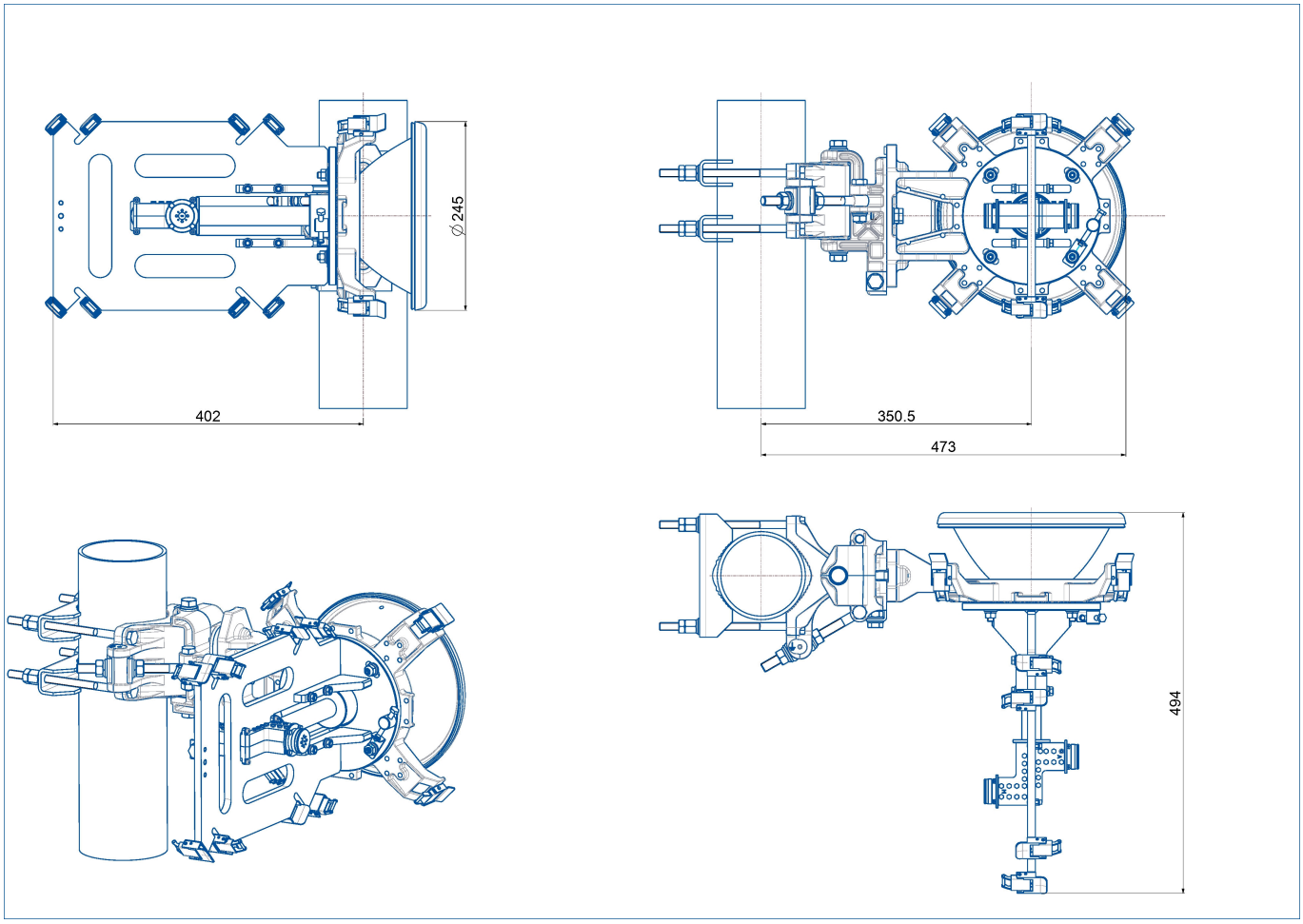
Mechanical Characteristics

Pole	50 - 115 mm
Elevation-fine adjustment	+/- 15 deg
Azimuth-fine adjustment	+/- 20 deg
Side struts, included	0
Side struts, optional	0
Net weight	10.5 Kg
Radome	Rigid Plastic
Wind velocity Operational	45 m/s
Wind velocity Survival	70 m/s
Wind deflection	< 0.3 times the -3 dB beam width
(with a wind velocity of 45 m/s)	Specified wind deflection applies for 115 mm dia mounting pipe only

Antenna Dimensions

(pole mount included)

Height	245 mm
Width	473 mm
Depth	494 mm



Wind forces at wind velocity survival rating and with 25 mm (1") ice load

Axial force	185 N
Side force	91 N
Twisting Moment	65 N*m

Maximum forces exerted on a supporting structure as a result of wind (survival rating) from the most critical direction for each parameter. These values may not occur simultaneously. All forces are referred to the mounting pipe of 115 mm diameter.

Electrical Characteristics

Frequency range	71-86 GHz
Gain, low band	39.0 dBi (external OMT insertion loss included)
Gain, mid band	39.5 dBi (external OMT insertion loss included)
Gain, top band	40.0 dBi (external OMT insertion loss included)
Return Loss	14 dB
VSWR	1.5
HPBW	1.4 deg
Front to back ratio	59 dB
Isolation	30 dB
XPD	27 dB
Electrical Compliance	ETSI 302 217 Class 3
	US FCC Part 101.115

Shipping Information

Gross weight	12.5 Kg
Height	600 mm
Depth	400 mm
Width	400 mm

faini telecommunication systems	RADIATION PATTERN ENVELOPE ANTENNA TYPE FIA02-710	1789

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FREQUENCY BAND: 71000 to 86000 MHz
DIAMETER: 0.2 m

