FIA 02-710SW

E-band 0.75ft (20 cm) antenna



General Specifications

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

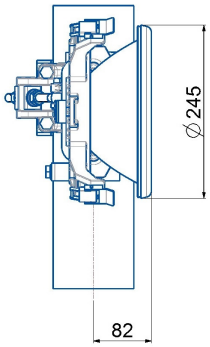
Mechanical Characteristics

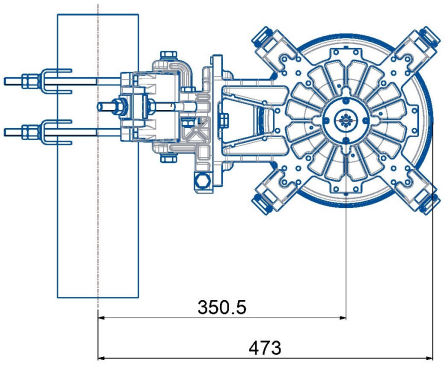
Pole	50 - 115 mm
Elevation-fine adjustment	+/- 15 deg
Azimuth-fine adjustment	+/- 20 deg
Side struts, included	0
Side struts, optional	0
Net weight	6.7 Kg
Radome	Rigid Plastic
Wind velocity Operational	45 m/s
Wind velocity Survival	70 m/s
Wind deflection	0.3 times the -3 dB beam width
(with a wind velocity of 45 m/s)	Specified wind deflection applies for 115 mm dia mounting pipe only

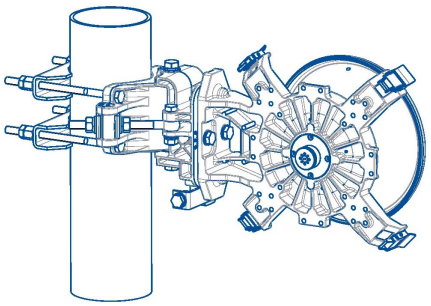
Antenna Dimensions

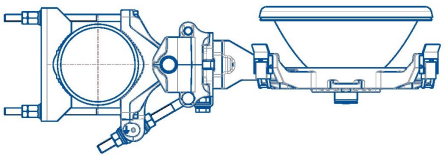
(pole mount included)

Height	245 mm
Width	473 mm
Depth	82 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	40.5 dBi
Gain, mid band	41.0 dBi
Gain, top band	41.5 dBi
Return Loss	14 dB
VSWR	1.5:1
HPBW	1.4 deg
Front to back ratio	59 dB
Isolation	-
XPD	27 dB
Electrical Compliance	ETSI 302 217 Class 3
	US FCC Part 101.115

Shipping Information

Gross weight	8 Kg
Height	300 mm
Depth	410 mm
Width	410 mm

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

Issued on 09-05-2024 .....

FREQUENCY BAND: 71000 to 86000 MHz
DIAMETER: 0.2 m

