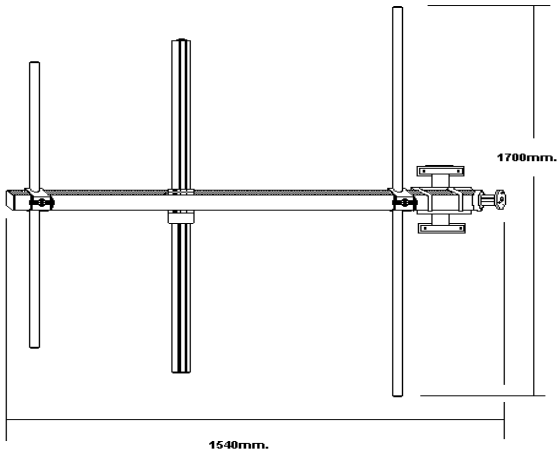
BROADBAND DIRECTIVE ANTENNAS

Model AJ3 - AJ3 7/8.

3 ELEMENTS BROADBAND ANTENNA

FM BAND 87.5-108 MHz.

- **BAND II**
- **B.BAND DIRECTIONAL ANTENNA**
- **LINERAR POLARIZATION HORIZONTAL OR VERTICAL**
- **STAINLESS STEEL INOX AISI 304**
- **LIGHTNING PROTECTION ALL METAL PARTS DC GROUNDED**



Electrical Data

Model	AJ3 – AJ3 7/8
Impedance	50 ohm.
Frequency Range	87.5 - 108 MHz.
Gain	4.5 dB. (ref.to half wave dipole)
VSWR	< 1.25
Polarization	linear horizontal or vertical
Max Power	AJ3 2000W AJ3 7/8 3000W
Combinations	The antenna is especially suitable as a component in array to achieve various radiation patterns.

Mechanical Data

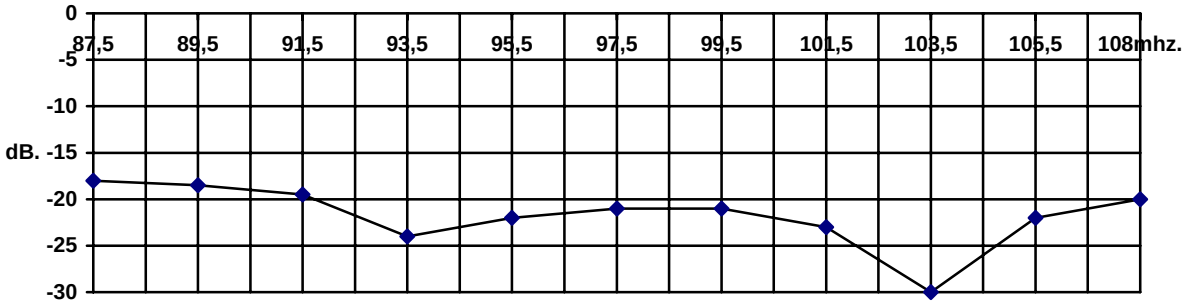
Wind Load	65kg. 150km/h
Max Wind Velocity	150km/h.
Weight	kg. 12.5 ref. stainless steel
Mounting	with standard clamp 50-110mm. diam.
Dimensions	1540x1700x100mm.

Materials:	Mounting hardware	Galvanized steel
	Insulator	PTFE (Teflon)
	Dipole	stainless steel
	Internal	Aluminium, Copper

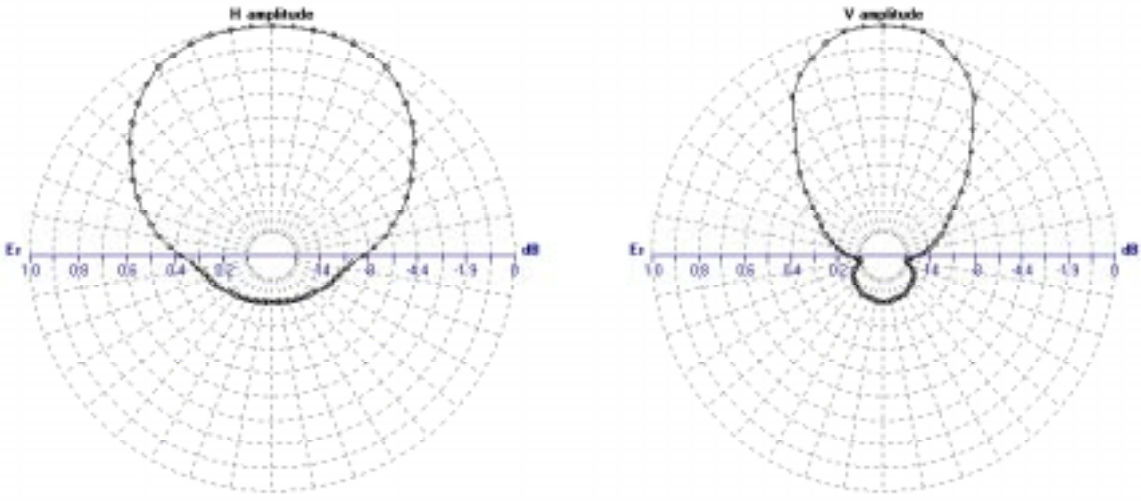
Connectors Type Request

N Female	800W.max
LC or 7/16 Female	2000W.max
7/8 Female	3000W.max

Return loss



Radiation Pattern at mid band (98MHz)



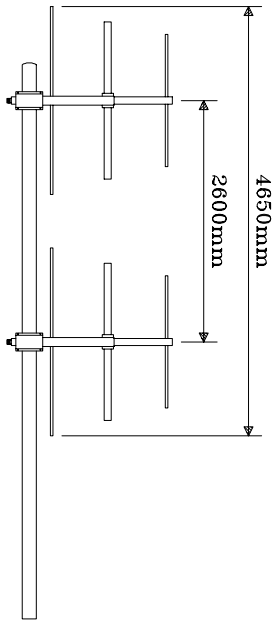
Half Power Beamwidth

Model AJ3x2 - AJ3x2 HP.

TWO 3 ELEMENTS BROADBAND ANTENNA

FM BAND 87.5-108 MHz.

- **BAND II**
- **B.BAND DIRECTIONAL ANTENNA**
- **LINERAR POLARIZATION HORIZONTAL OR VERTICAL**
- **STAINLESS STEEL INOX AISI 304**
- **LIGHTNING PROTECTION ALL METAL PARTS DC GROUNDED**



Electrical Data

Model	AJ3x2 - AJ3x2 HP
Impedance	50 ohm.
Frequency Range	87.5 - 108 MHz
Gain	7.5 dB. (ref.to half wave dipole)
Polarization	linear horizontal or vertical
VSWR	< 1.25
Max Power	800 W (AJ3x2) 1000 W (AJ3x2 HP)

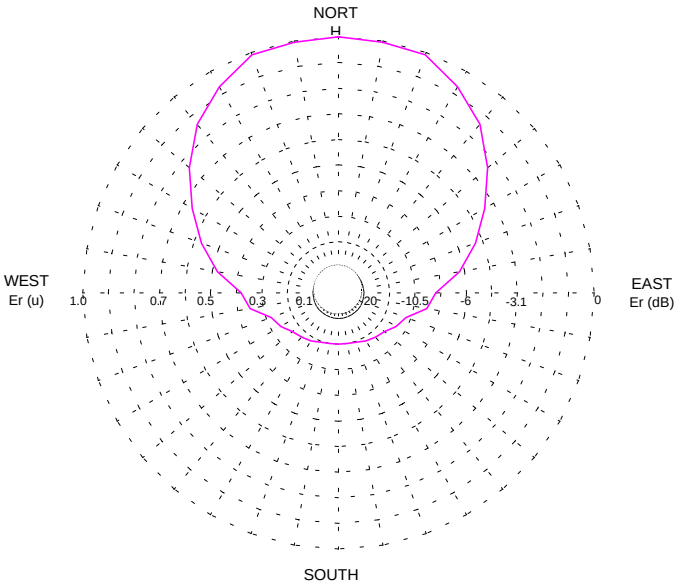
System composition

AJ3x2 - 2 AJ3, 2 ways wide-band splitter with N-type connectors and 2 coaxial cables RG213 with N-type end connectors.
AJ3x2 HP - 2 AJ3, 2 ways wide-band splitter (Input EIA 7/8" flange and N-type connectors output) and 2 coaxial cables RG213 with N-type end connectors**.**

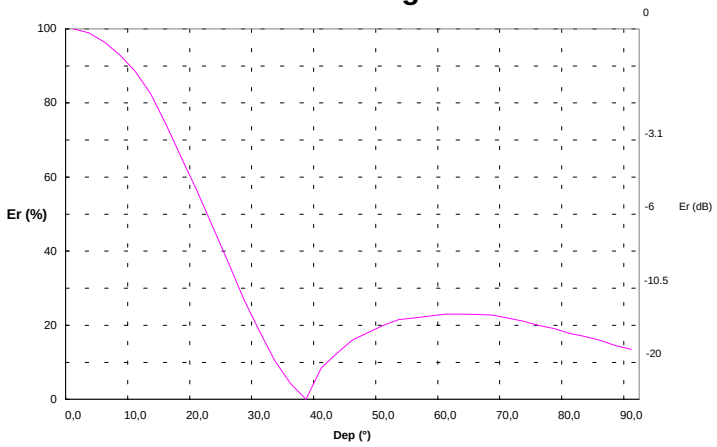
Mechanical Data

Antenna height		4650 mm.
Weight		30 Kgs (Without mounting hardware)
Wind load (150 Km/h)		46 Kgs.
Max wind velocity		150 Km/h.
Materials:	Mounting hardware	Galvanized steel
	Insulator	PTFE (Teflon)
	Dipole	stainless steel
	Internal	Aluminium, Copper

Horizontal Diagram



Vertical Diagram

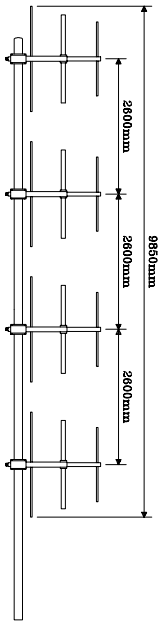


Model AJ3x4 - AJ3x4 HP.

FOUR 3 ELEMENTS BROADBAND ANTENNA

FM BAND 87.5-108 MHz.

- **BAND II**
- **B.BAND DIRECTIONAL ANTENNA**
- **LINERAR POLARIZATION HORIZONTAL OR VERTICAL**
- **STAINLESS STEEL INOX AISI 304**
- **LIGHTNING PROTECTION ALL METAL PARTS DC GROUNDED**



Electrical Data

Model	AJ3x4 - AJ3x4 HP
Impedance	50 ohm.
Frequency Range	87.5 - 108 MHz.
Gain	10.5 dB. (ref.to half wave dipole)
Polarization	linear horizontal or vertical
Combinations	The antenna is especially suitable as a component in array to achieve various radiation patterns.
VSWR	< 1.25
Max Power	800 W (AJ3x4) 2000 W (AJ3x4 HP)

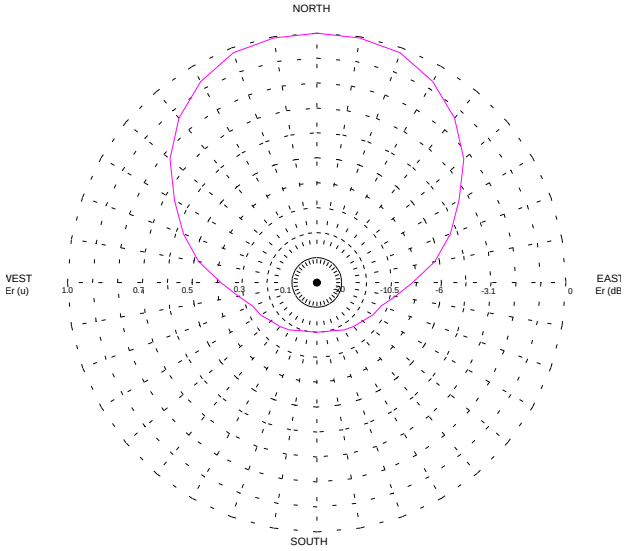
System composition

AJ3x4 - 4 AJ3, 4 ways wide-band splitter with N-type connectors and 4 coaxial cables RG213 with N-type end connectors.
AJ3x4 HP - 4 AJ3, 4 ways wide-band splitter (Input EIA 7/8" flange and N-type connectors output) and 4 coaxial cables RG213 with N-type end connectors.

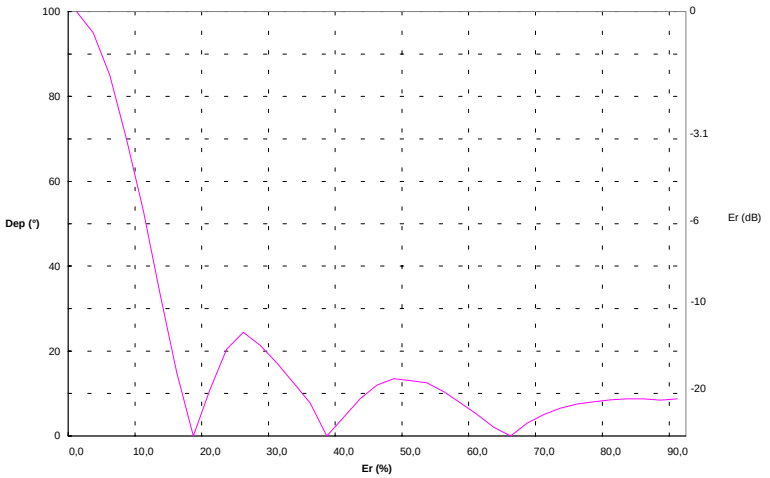
Mechanical Data

Antenna height		9850 mm.
Weight		60 Kgs (Without mounting hardware)
Wind load (150 Km/h)		92 Kgs.
Max wind velocity		150 Km/h
Materials:	Mounting hardware	Galvanized steel
	Insulator	PTFE (Teflon)
	Dipole	stainless steel
	Internal	Aluminium, Copper

Horizontal Diagram



Vertical Diagram

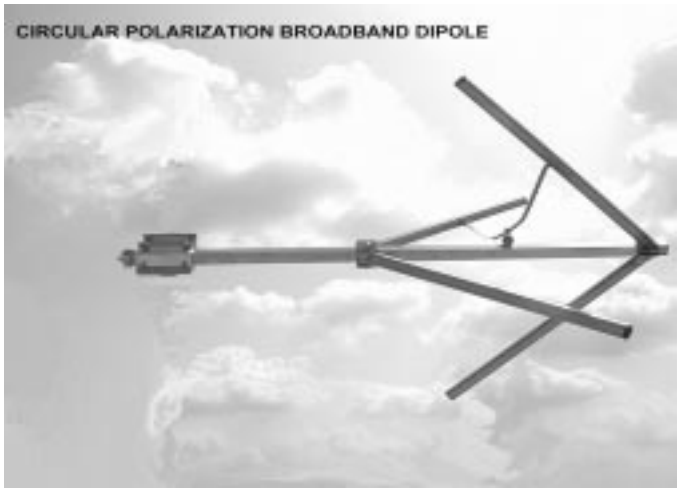


BROADBAND CIRCULAR POLARIZATION ANTENNAS

Model ACP 1/ ACP 1-7/8.

CIRCULAR BROADBAND ANTENNA

FM BAND 87.5-108 MHz.



- **BAND II**
- **B.BAND ANTENNA**
- **CIRCULAR POLARIZATION**
- **STAINLESS STEEL INOX AISI 304**
- **DESMOUNTABLE**
- **PRESSURIZATION ON REQUEST**
- **LIGHTNING PROTECTION ALL METAL PARTS DC GROUNDED**

This antenna offer the possibility of simultaneously utilizing vertical and horizontal polarization for better coverage especially in urban areas.

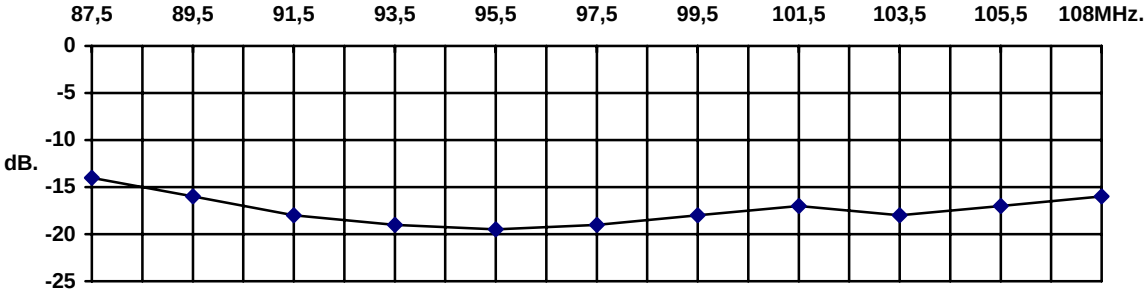
Electrical Data

Model	ACP 1 – ACP 1-7/8
Impedance	50 ohm.
Frequency Range	87.5 - 108 MHz.
Gain	See table
Polarization	Right circular
VSWR	< 1.4
Max Power	ACP 1 2000W ACP 1-7/8 3000W
Combinations	Collinear system

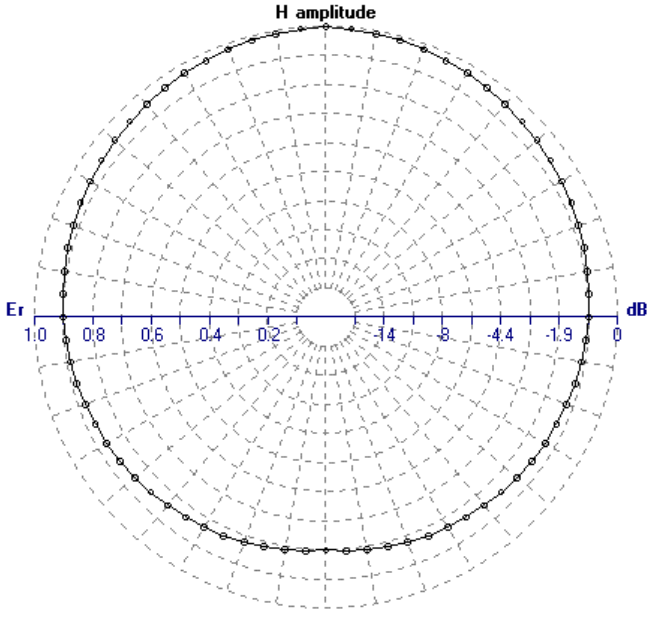
Mechanical Data

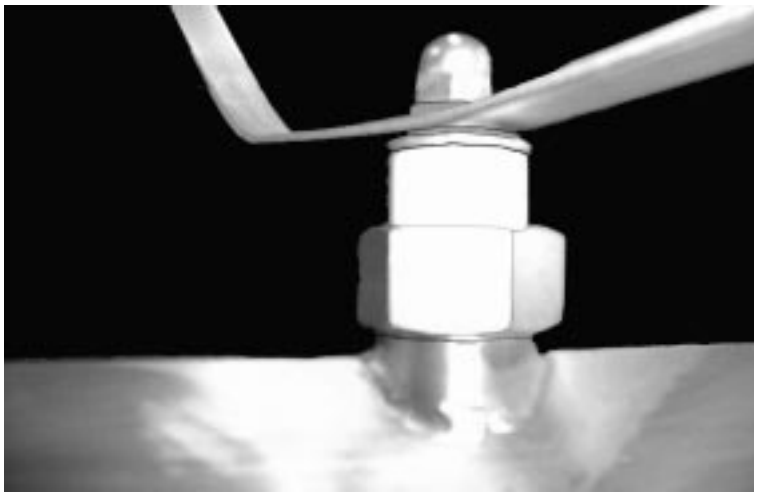
Wind Load	38kg. 150km/h
Max Wind Velocity	200km/h.
Weight	14.6 kg.
Mounting	with standard clamp 50-110mm. diam.
Dimensions	1550x1130x1130mm.
Option	Radome fiberglass white

Return loss



RADIATION PATTERN at mid band.





Detail of alimentation dipoles

Horizontal component with pole mounting 100mm diameter at 98 MHz.

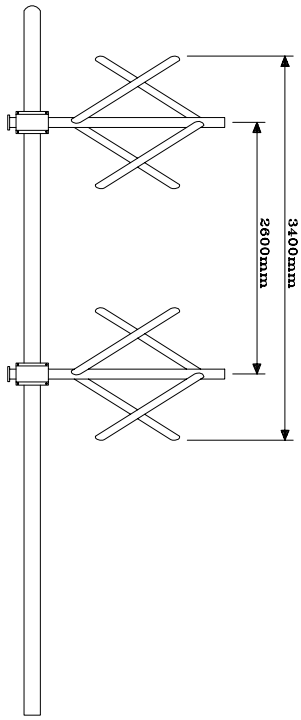
Model ACP 1x2 - ACP 1x2 7/8

TWO CIRCULAR POLARIZATION ANTENNA SYSTEM

FM BAND 87.5-108 MHz.

- **BAND II**
- **B.BAND ANTENNA**
- **CIRCULAR POLARIZATION**
- **STAINLESS STEEL INOX AISI 304**
- **DESMOUNTABLE**
- **PRESSURIZATION ON REQUEST**
- **LIGHTNING PROTECTION ALL METAL PARTS DC GROUNDED**

This antenna offer the possibility of simultaneously utilizing vertical and horizontal polarization for better coverage especially in urban areas.



Electrical Data

Model	ACP 1x2 - ACP1x2 7/8
Impedance	50 ohm.
Frequency Range	87.5 - 108 MHz.
Gain	1.5 dB (referred to a half wave dipole)
Polarization	Right circular
Vertical Pattern	Null fill, beam tilt and special requirements to order
VSWR	< 1.4
Combinations	Collinear system
Max Power	1000 W (ACP1x2) 3000 W (ACP1x2 7/8)

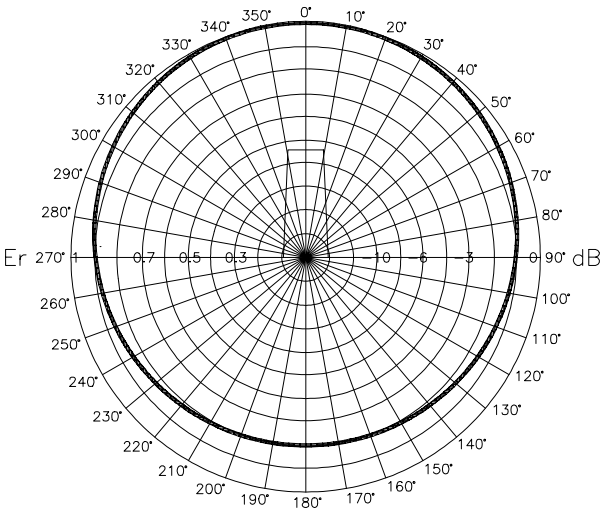
System composition

ACP1x2 - 2 ACP1, 2 ways wide-band splitter (Input EIA 7/8" flange and N-type connectors output) and 2 coaxial cables RG213 with N-type end connectors.
ACP1x2 7/8 - 2 ACP1 7/8, 2 ways wide-band splitter (Input EIA 1+5/8" flange and EIA 7/8" flange output) and 2 coaxial cables 1/2" with EIA 7/8" end flange.

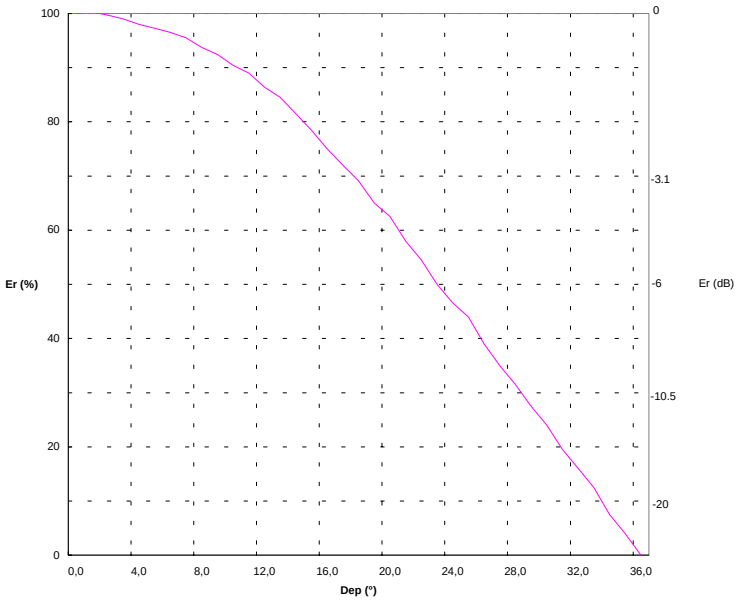
Mechanical Data

Wind Load	70kg. 150km/h
Max Wind Velocity	200km/h.
Weight	35 kg.
Mounting	with standard clamp 50-110mm. diam.
Antenna height	3400 mm.
Option	Radome fiberglass white

Horizontal Pattern (F=95 MHz)



Vertical Diagram



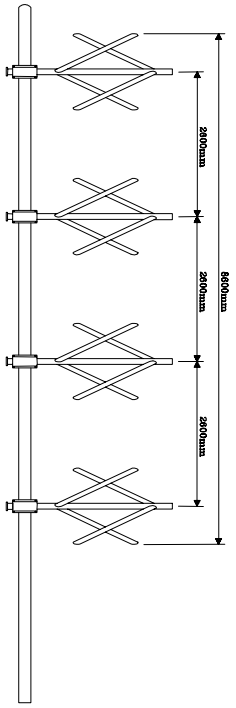
Model ACP 1x4

FOUR CIRCULAR POLARIZATION ANTENNA SYSTEM

FM BAND 87.5-108 MHz.

- **BAND II**
- **B.BAND ANTENNA**
- **CIRCULAR POLARIZATION**
- **STAINLESS STEEL INOX AISI 304**
- **DESMOUNTABLE**
- **PRESSURIZATION ON REQUEST**
- **LIGHTNING PROTECTION ALL METAL PARTS DC GROUNDED**

This antenna offer the possibility of simultaneously utilizing vertical and horizontal polarization for better coverage especially in urban areas.



Electrical Data

Model	ACP 1x4 - ACP1x4 7/8
Impedance	50 ohm.
Frequency Range	87.5 - 108 MHz.
Gain	4.5 dB (referred to a half wave dipole)
Polarization	Right circular
Vertical Pattern	Null fill, beam tilt and special requirements to order
VSWR	< 1.4
Combinations	Collinear system
Max Power	3000 W (ACP1x4) 5000 W (ACP1x4 7/8)

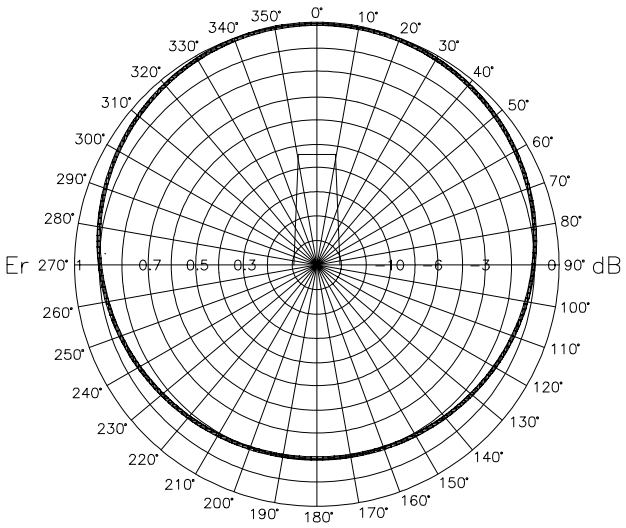
System composition

ACP1x4 - 4 ACP1, 4 ways wide-band splitter (Input EIA 7/8" flange and N-type connectors output) and 4 coaxial cables RG213 with N-type end connectors.
ACP1x4 7/8 - 4 ACP1 7/8, 4 ways wide-band splitter (Input EIA 1+5/8" flange and EIA 7/8" flange output) and 4 coaxial cables 1/2" with EIA 7/8" end flange.

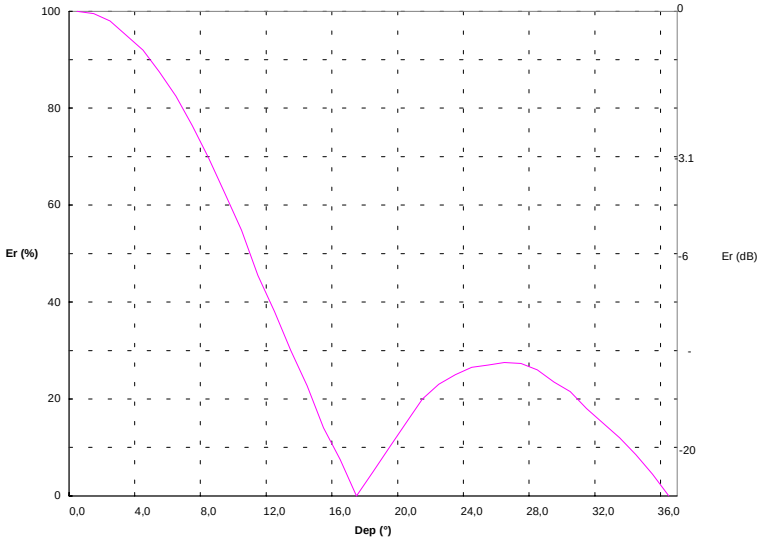
Mechanical Data

Wind Load	138kg. 150km/h
Max Wind Velocity	200km/h.
Weight	75 kg.
Mounting	with standard clamp 50-110mm. diam.
Antenna height	8600 mm.
Option	Radome fiberglass white

Horizontal Pattern (F=95 MHz)

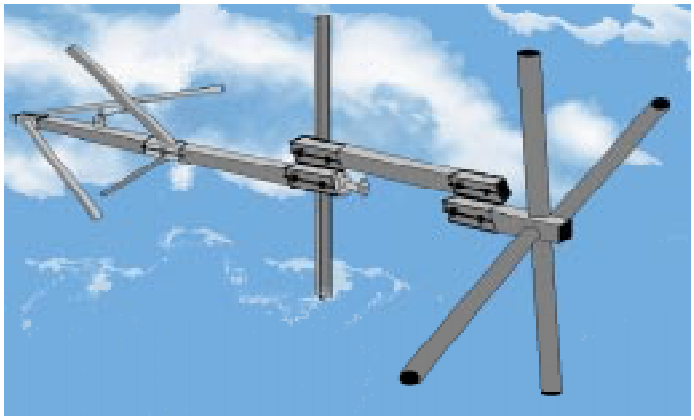


Vertical Diagram



Model ACP 2 – ACP 2-7/8

CIRCULAR BROADBAND ANTENNA / R



FM BAND 87.5-108 MHz.

- **BAND II**
- **B.BAND ANTENNA**
- **CIRCULAR POLARIZATION**
- **STAINLESS STEEL INOX AISI 304**
- **PRESSURIZATION ON REQUEST**
- **LIGHTNING PROTECTION ALL METAL PARTS DC GROUNDED**

This antenna offer the possibility of simultaneously utilizing vertical and horizontal polarization for better coverage especially in urban areas.

Electrical Data

Model	ACP 2
Impedance	50 ohm.
Frequency Range	87.5 - 108 MHz.
Gain	-1.5 dB (referred to a half wave dipole)
Polarization	Vertical and horizontal
VSWR	< 1.35
Max power	ACP 2 2000W ACP 7/8 3000W
Combinations	Collinear system

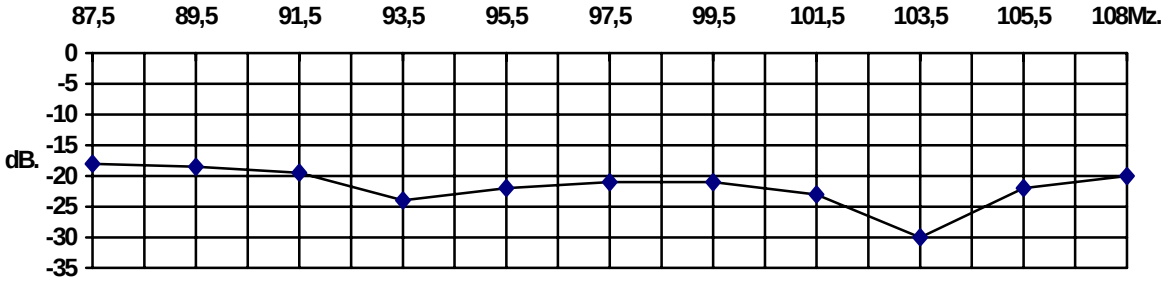
Mechanical Data

Wind Load	50kg. 150km/h
Max Wind Velocity	150km/h.
Weight	21 kg.
Mounting	with standard clamp 50-110mm. diam.
Dimensions	2210x1300x1300 mm.

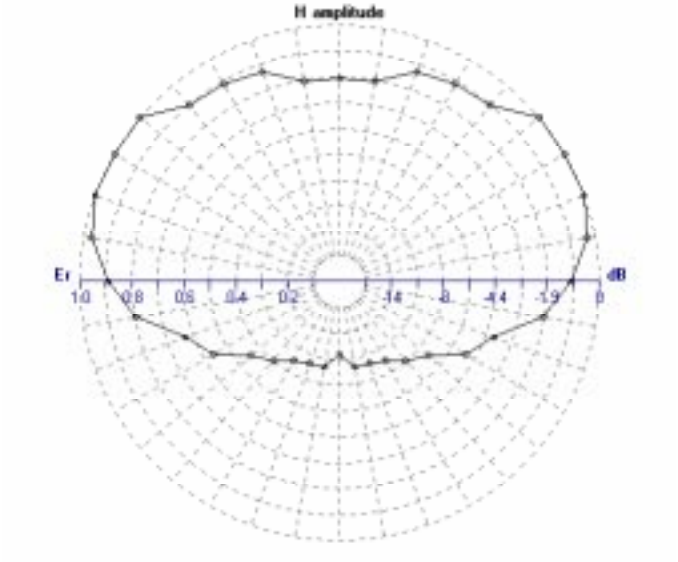
Connectors Type Request

N Female	800W.max
LC or 7/16 Female	2000W.max
7/8 Female	3000W.max

Return loss



RADIATION PATTERN at mid band.



Horizontal component
with pole mounting 100mm diameter
at 98 MHz.

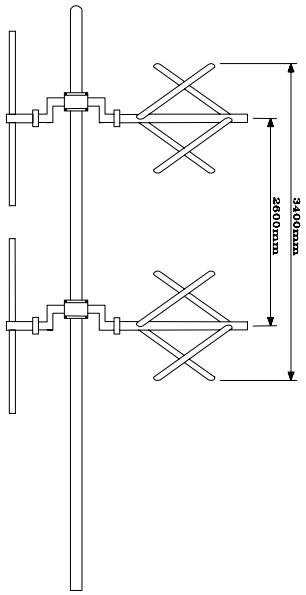
Model ACP 2x2 - ACP 2x2 7/8

TWO CIRCULAR POLARIZATION ANTENNA SYSTEM

FM BAND 87.5-108 MHz.

- **BAND II**
- **B.BAND ANTENNA**
- **CIRCULAR POLARIZATION**
- **STAINLESS STEEL INOX AISI 304**
- **PRESSURIZATION ON REQUEST**
- **LIGHTNING PROTECTION ALL METAL PARTS DC GROUNDED**

This antenna offer the possibility of simultaneously utilizing vertical and horizontal polarization for better coverage especially in urban areas.



Electrical Data

Model	ACP 2x2 - ACP 2x2 7/8
Impedance	50 ohm.
Frequency Range	87.5 - 108 MHz.
Gain	0 dB (referred to a half wave dipole)
Polarization	Vertical and horizontal
VSWR	< 1.35
Combinations	Collinear system
Max Power	1000 W (ACP2x2) 3000 W (ACP2x2 7/8)

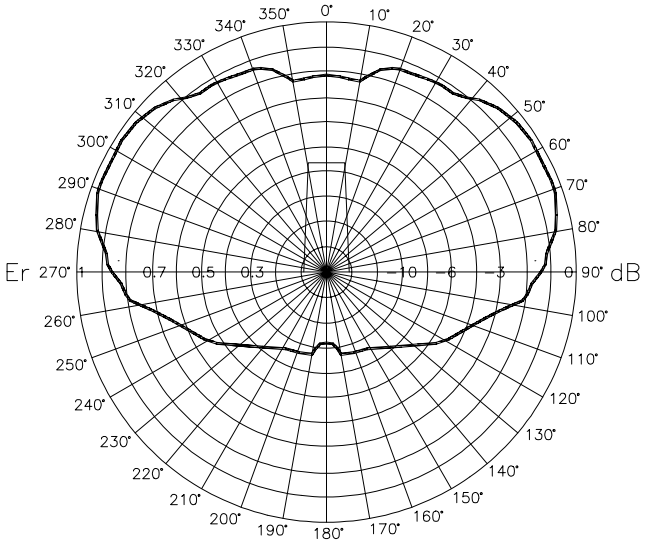
System composition

ACP2x2 - 2 ACP2, 2 ways wide-band splitter (Input EIA 7/8" flange and N-type connectors output) and 2 coaxial cables RG213 with N-type end connectors.
ACP2x2 7/8 - 2 ACP2 7/8, 2 ways wide-band splitter (Input EIA 1+5/8" flange and EIA 7/8" flange output) and 2 coaxial cables 1/2" with EIA 7/8" end flange.

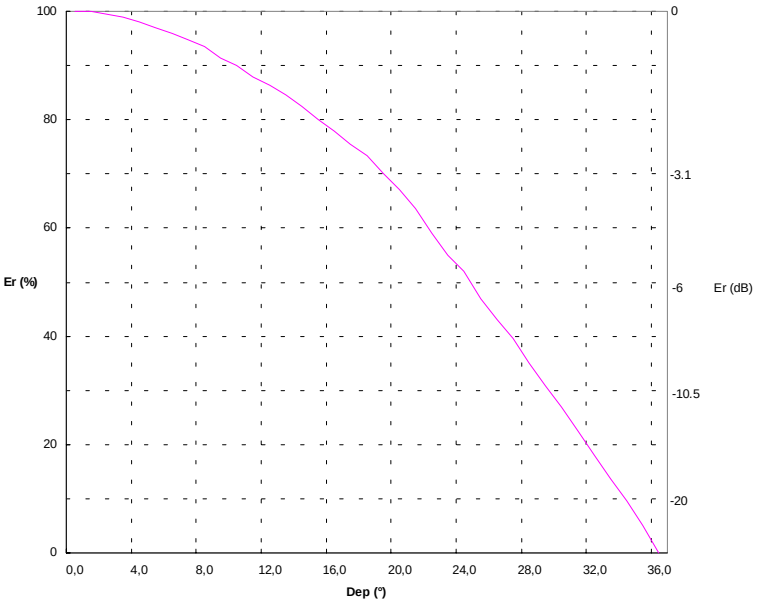
Mechanical Data

Wind Load	97kg. 150km/h
Max Wind Velocity	200km/h.
Weight	46 kg.
Antenna height	3400 mm.

Horizontal pattern (F=98 MHz)



Vertical Diagram



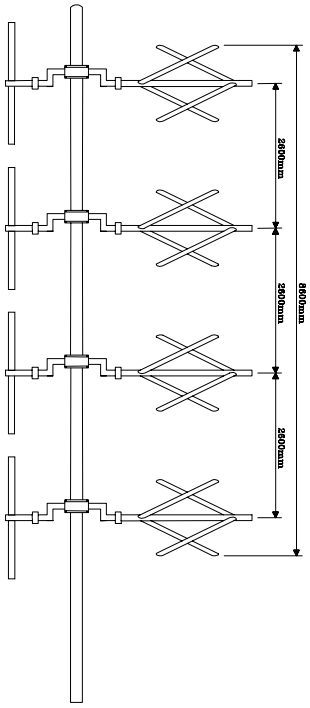
Model ACP 2x4 - ACP 2x4 7/8

FOUR CIRCULAR POLARIZATION ANTENNA SYSTEM

FM BAND 87.5-108 MHz.

- **BAND II**
- **B.BAND ANTENNA**
- **CIRCULAR POLARIZATION**
- **STAINLESS STEEL INOX AISI 304**
- **PRESSURIZATION ON REQUEST**
- **LIGHTNING PROTECTION ALL METAL PARTS DC GROUNDED**

This antenna offer the possibility of simultaneously utilizing vertical and horizontal polarization for better coverage especially in urban areas.



Electrical Data

Model	ACP 2x4 - ACP 2x4 7/8
Impedance	50 ohm.
Frequency Range	87.5 - 108 MHz.
Gain	3 dB (referred to a half wave dipole)
Polarization	Vertical and horizontal
VSWR	< 1.35
Combinations	Collinear system
Max Power	3000 W (ACP2x4) 5000 W (ACP2x4 7/8)

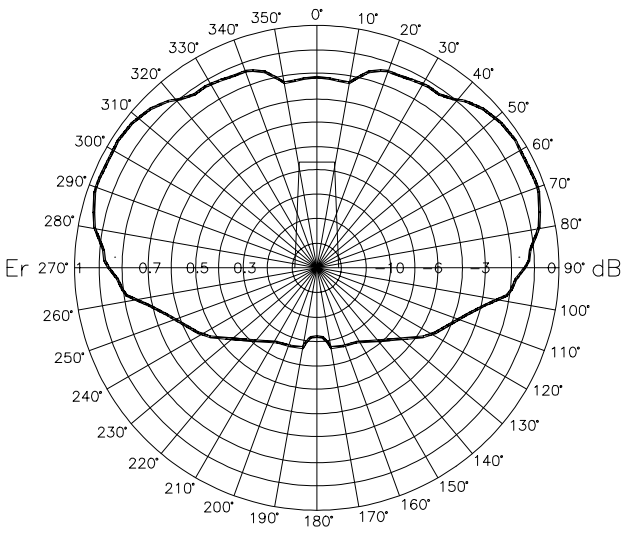
System composition

ACP2x4 - 4 ACP2, 4 ways wide-band splitter (Input EIA 7/8" flange and N-type connectors output) and 4 coaxial cables RG213 with N-type end connectors.
ACP2x2 7/8 - 4 ACP2 7/8, 4 ways wide-band splitter (Input EIA 1+5/8" flange and EIA 7/8" flange output) and 4 coaxial cables 1/2" with EIA 7/8" end flange.

Mechanical Data

Wind Load	194kg. 150km/h
Max Wind Velocity	200km/h.
Weight	87 kg.
Antenna height	8600 mm.

Horizontal Pattern (F= 98 MHz)



Vertical Diagram