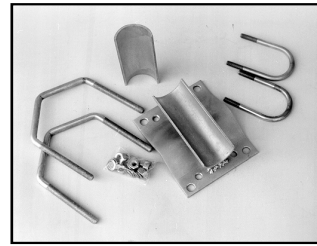


Type 100.509 (87.5 - 99 MHz)
Type 100.519 (97 - 108 MHz)



* Special pipe mounting clamps
type 100.509.045 (50 - 115) mm
(included).

- **General:** Double-crossed dipole antenna with circular radiation offers the possibility of simultaneously utilizing vertical and horizontal polarization for better coverage, especially in urban areas.
- **Mechanical design:** Radiating element is made of stainless steel according to DIN 17441 standards.
- **Radiation pattern:** Free-space pattern circularity is ± 1 dB and similar in case of pole mounting.
- **Connector:** 7/8" EIA flange, has a maximum input of 2 kW.
- **Standing Wave Ratio:** The VSWR is guaranteed to be lower than or equal to 1.35 across the whole bandwidth.

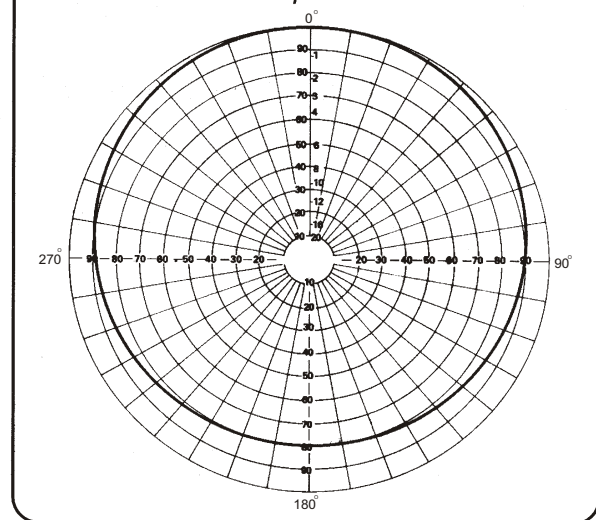
ELECTRICAL SPECIFICATIONS

Frequency Range	87.5 – 99 / 97 – 108 MHz
Impedance	50
Connector	7/8" EIA
Max. Power	2 kW
VSWR	< 1.35
Polarization	Circular / Elliptical
Gain	-2dB (to /2 dipole)
Pattern	Omnidirectional 1 dB in free space

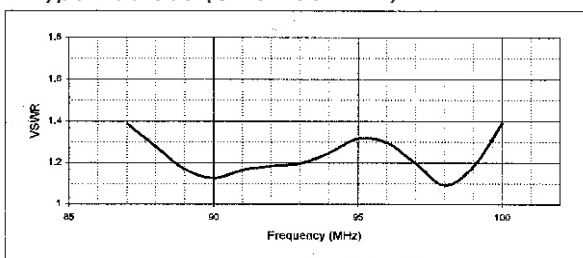
MECHANICAL SPECIFICATIONS

Dimensions	1500x830x830 mm 1370x770x770 mm
Weight	16 kg / 15 kg
Material:	
External	Stainless steel
Inner conductor	Silver plated brass
Isolator	PTFE

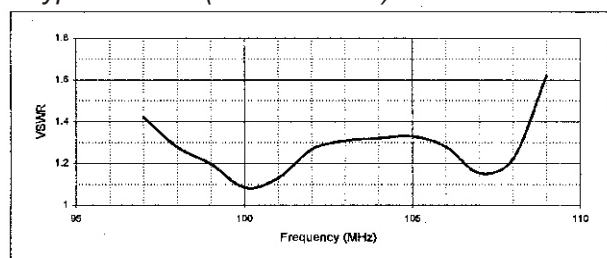
Horizontal radiation pattern



Type 100.509 (87.5 - 99 MHz)



Type 100.519 (97 - 108 MHz)



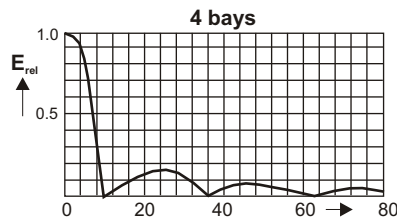
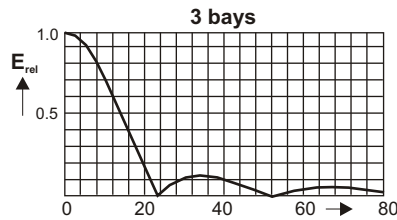
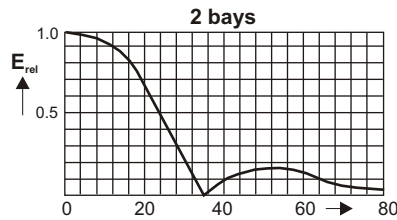
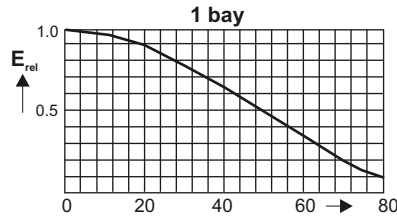
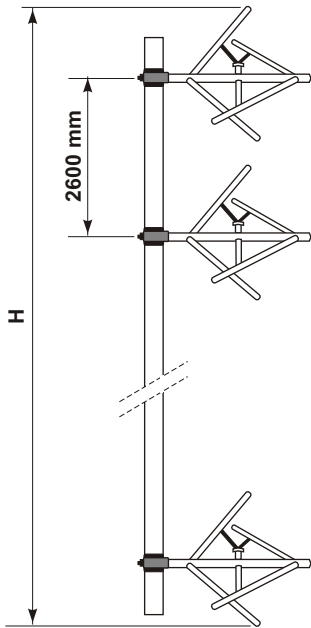
FM Circular Antenna Systems

Radiating system characteristics

No of Bays	Antennas Per Bay	Gain (dB)	Weight (kg)	System height (m) H
1	1	-2.0	16 (15)	0.83 (0.77)
2	1	+1.0	32 (30)	3.43 (3.37)
3	1	+2.5	48 (45)	6.03 (5.97)
4	1	+4.0	64 (60)	8.63 (8.57)

Broadcasting antennas

Vertical Radiation Patterns



- Demountable antenna.** In order to reduce the packing dimensions of the antenna, a demountable type of Circular antenna is also available (Type 100.529 for 87.5-99 MHz and 100.530 for 97-108 MHz).

