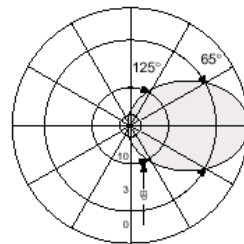


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Approved ERA/RKB/ZUC (D Radenholt)	Checked	Date 2002-08-26	Rev A
		Reference	

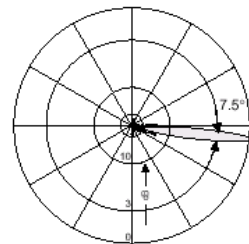
ANTENNA



880 – 960 MHz: +45°/–45° Polarization

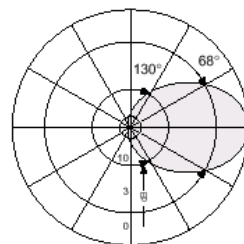


Horizontal Pattern

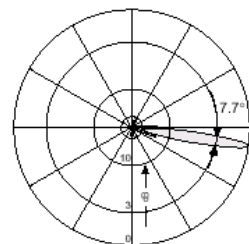


Vertical Pattern
 0°–7° electrical downtilt

824 – 894 MHz: +45°/–45° Polarization

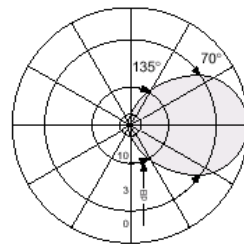


Horizontal Pattern

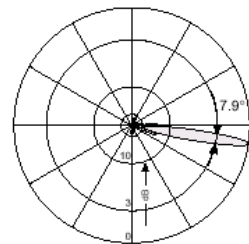


Vertical Pattern
 0°–7° electrical downtilt

806 – 866 MHz: +45°/–45° Polarization



Horizontal Pattern



Vertical Pattern
 0°–7° electrical downtilt

1 GENERAL

1.1 DESCRIPTION

800-900 MHz panel antenna for base stations. Consists of two independent systems for +45° and –45° polarisation covered by a fibreglass radome. Both systems are provided with manually adjustable electrical down-tilt.

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2 CHARACTERISTIC VALUES

2.1 ELECTRICAL DATA

Frequency range:	806-866 MHz	824-894 MHz	880-960 MHz
Polarisation:	+45°, -45°		
Gain:	2 x 17 dBi	2 x 17.2 dBi	2 x 17.5 dBi
Horizontal beamwidth:	70°	68°	65°
Vertical beamwidth:	7.9°	7.7°	7.5°
Electrical tilt:	0-7° manually adjustable electrical tilt (MET)		
Sidelobe suppression for first sidelobe above horizon:	0°...2°... 4°...7° tilt 17..17.. 17.. 17 dB	0°...2°... 4°...7° tilt 18..18.. 18.. 18 dB	0°...2°... 4°...7° tilt 18..18.. 18..18 dB
Front-to-back ratio, - co-polar: - total power:	> 25 dB	> 25 dB	> 25 dB
Cross-polar ratio - main direction 0°: - sector ±60°:	typically 25 dB >10 dB		
Isolation between ports:	> 30 dB		
Impedance:	50 ohm		
VSWR:	< 1.5	< 1.5	< 1.5
Intermodulation:	IM3: -150 dBc @2x43 dBm		
Max power per input:	400 W (at 50° ambient temperature)		
Lightning protection	Metal parts and inner conductors DC grounded		

Other electrical data according to Basic Specification
2/1029-COA 109 120 Uen.

2.2 MECHANICAL DATA

Rated wind velocity:	55.6 m/s
Wind load at 42 m/s,	frontal: 470 N
	lateral: 280 N
	rear side: 1040 N
Connector type:	7-16 female (2 pcs)
Connector position:	bottom
Radome material:	glass fibre
Colour:	grey

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2.3 **DIMENSIONS**

Height: 2580 mm
 Width: 262 mm
 Depth: 116 mm
 Weight: 22 kg

3 **ACCESSORIES**

The following accessory is delivered with the antenna. Quantities: see product list.

Product no	Supplier code	Description
SXA 120 106/1	738 546	1 clamp, mast diam = 50-115 mm

The following accessory is an option to be ordered separately.

Product no	Supplier code	Description
SXA 120 103/5	737 971	Downtilt kit 0°-8°

4 **ENVIRONMENTAL ENDURANCE**

According to Basic Specification 2/1029-COA 109 120 Uen.

Operating temperature: low: -55°C
 high (dry): +60°C

5 **INTERNAL INFORMATION**

Supplier: Kathrein, Germany

6 **PRODUCT LIST**

Product no	Supplier code	
KRE 101 1973/1	*)	

*) Consisting of:
 antenna: 739 686
 clamps: 738 546 (2 pcs)