

TX station: 8xAKG/77

Site name: TEST

General data of antenna system

TX station	8xAKG/77
Site name	TEST
Site longitude (+ddd°pp'ss")	
Site latitude (+dd°pp'ss")	
Ground level a.s.l. (m)	100
Antenna system height a.g.l. (m)	50.0
Transmitter power (Watt)	1000.0
Carrier wave frequency (MHz)	98.00
Antenna system central frequency (MHz)	98.00
Filename of antenna base diagrams type 1	LABEL_AKG77.ANT
Filename of antenna base diagrams type 2	
Antenna system polarization (H, V, C)	V
Transmitting cable attenuation (dB)	0.0
Additional attenuations (dB)	0.0
Base diagrams sectors (A = all, F = front)	A
Velocity factor of cables to antennas (0÷1)	0.88
Coordinate system (C = cartesian, P = polar)	P
Mast side/diameter (cm):	10.0
Mast cross section (Triangular, Square, Circular)	C
Mast rotation w.r.t. North (°)	0
Project picture filename (*.bmp)	

Information about antennas used in the project*Antenna of type 1*

Manufacturer	LABEL ITALY
Antenna model	AKG/77 - H.P. CIRC.
Band start (MHz)	87.5
Band stop (MHz)	108
Diagrams frequency (MHz)	98
Polariz. (H, V, C)	C
Vertical dist. (cm)	260
Height (cm)	124
Width (cm)	115
Thickness (cm)	150
Weight (Kg)	12
Maximum power (KW)	5
Gain (dBd)	-1.35
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	-21
R.C. phase (°)	0

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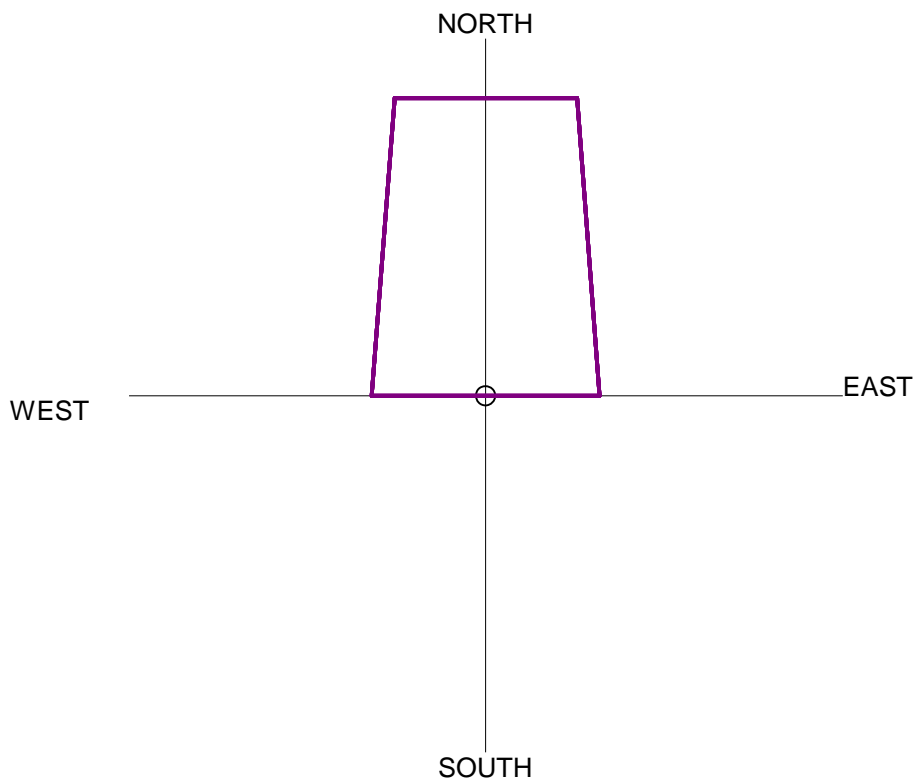
Geometr. and electrical data of antenna system

	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</i> (°N)	<i>Phase</i> (°)	<i>V dist.</i> (m)	<i>Scr-D</i> (cm)	<i>Scr-Az</i> (°N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)
1	12.500	0	0	0 + 0	8.75	0.0	0.0	1	1	0.0	0.0
2	12.500	0	0	0 + 0	6.25	0.0	0.0	1	1	0.0	0.0
3	12.500	0	0	0 + 0	3.75	0.0	0.0	1	1	0.0	0.0
4	12.500	0	0	0 + 0	1.25	0.0	0.0	1	1	0.0	0.0
5	12.500	0	0	0 + 0	-1.25	0.0	0.0	1	1	0.0	0.0
6	12.500	0	0	0 + 0	-3.75	0.0	0.0	1	1	0.0	0.0
7	12.500	0	0	0 + 0	-6.25	0.0	0.0	1	1	0.0	0.0
8	12.500	0	0	0 + 0	-8.75	0.0	0.0	1	1	0.0	0.0

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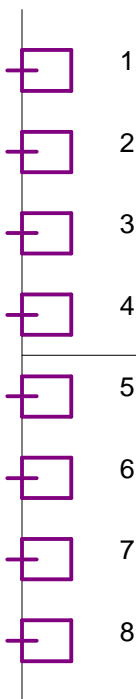
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Plan of antenna system



Side of antenna system

Az. 0°



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Antennas arrays data

A. Antennas array azimuth (°N)	0
B. Number of antennas	8
C. Nominal power supply (W)	1000.00
D. Losses (addit. + cables) (dB)	0.0
E. Effective power supply (W)	1000.00
F. Theor. maximum gain (dBd)	7.68
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	7.68
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	7.68
K. Effec. max gain (times)	5.86
L. Effec. max power [E * K] (KW)	5.8626
M. Max power depr. angle (°)	0.0

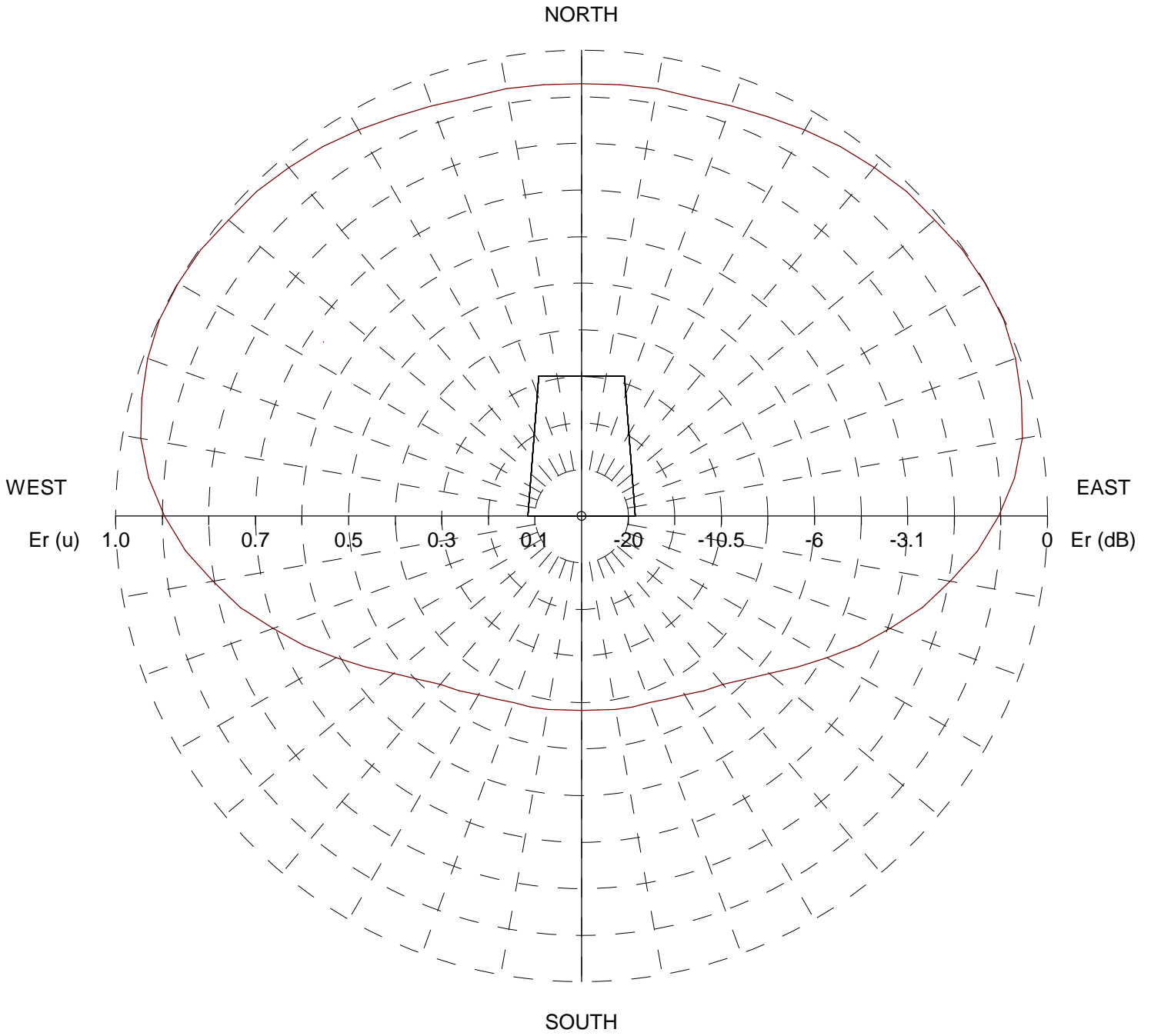
Diagram in dBK calculated at horizon

Az. (°N)	dBK	Az. (°N)	dBK	Az. (°N)	dBK	Az. (°N)	dBK
0	7.7	90	7.4	180	0.7	270	7.4
10	7.7	100	6.4	190	0.8	280	8.0
20	7.8	110	5.3	200	0.9	290	8.2
30	7.9	120	4.0	210	1.3	300	8.3
40	8.1	130	2.7	220	1.8	310	8.2
50	8.2	140	1.8	230	2.7	320	8.1
60	8.3	150	1.3	240	4.0	330	7.9
70	8.2	160	0.9	250	5.3	340	7.8
80	8.0	170	0.8	260	6.4	350	7.7

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Horizontal diagram



— 0.0° depres. (Total antenna), Gain (dBd): 8.3 ERP T.max (KW): 6.797 ERP E.max (KW): 6.797

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Vertical diagram

