

TX station: 8xAkg77-r

Gain solid integration : disabled

Site Name: Labelitaly

General data of Antenna System

TX station	8xAkg77-r
Site Name	Labelitaly
System of coordinates	Geographic
Longitude	00°00'00.000"
Latitude	00°00'00.000"
Ground level a.s.l. (m)	100.0
Antenna system height (m)	50.0
Transmitter power(Watt)	1000.000
Carrier wave frequency (MHz)	98.000
Antenna system central frequency (MHz)	98.000
Antenna base diagrams type 1	LABEL ITALY-AKG_77-R CIRC. POL. DIREC. WB
Antenna base diagrams type 2	-
Polarization (H/V/C/X)	C
Transmitting cable attenuation (dB)	0.0
Additional attenuations(dB)	0.0
Base diagrams sectors (T = All, F = Front)	T
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 (T/Q/C)	C
Structure rotation w.r.t. North (°)	0.0
Mast rotation w.r.t. North (°)	0.0

Information about antennas used in the System

	<i>Antenna type 1</i>
Manufacturer	LABEL ITALY
Antenna model	AKG_77-R CIRC. POL.
Band start(MHz)	98
Band stop(MHz)	98
diagrams Frequency(MHz)	98
Polariz (H,V,C,X)	C
Vertical dist (cm)	260
Height (cm)	120
Width (cm)	120
Thickness (cm)	200
Weight (Kg)	19
Maximum power (KW)	3
Gain (dBd)	0.85
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	20
R.C.Phase (°)	0

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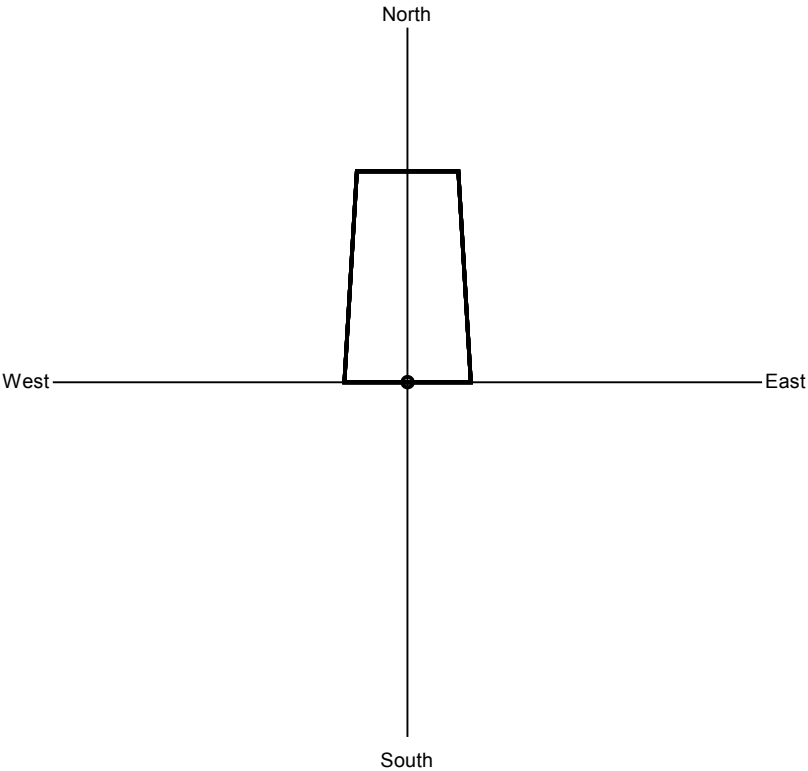
Geometr. and electrical data of Antenna System

	<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 +0.0	9.10	0.0	0.0	1	1	0.0	0.0
2	12.500	0	0	0 +0.0	6.50	0.0	0.0	1	1	0.0	0.0
3	12.500	0	0	0 +0.0	3.90	0.0	0.0	1	1	0.0	0.0
4	12.500	0	0	0 +0.0	1.30	0.0	0.0	1	1	0.0	0.0
5	12.500	0	0	0 +0.0	-1.30	0.0	0.0	1	1	0.0	0.0
6	12.500	0	0	0 +0.0	-3.90	0.0	0.0	1	1	0.0	0.0
7	12.500	0	0	0 +0.0	-6.50	0.0	0.0	1	1	0.0	0.0
8	12.500	0	0	0 +0.0	-9.10	0.0	0.0	1	1	0.0	0.0

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Plan of antenna system



Side of antenna system



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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)	9.88
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	9.88
I. Compensation losses (dB)	0.35
J. Effec. max gain [H - I] (dBd)	9.53
K. Effec. max gain (times)	8.97
L. Effec. max power [E * K] (KW)	8.9667
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	310

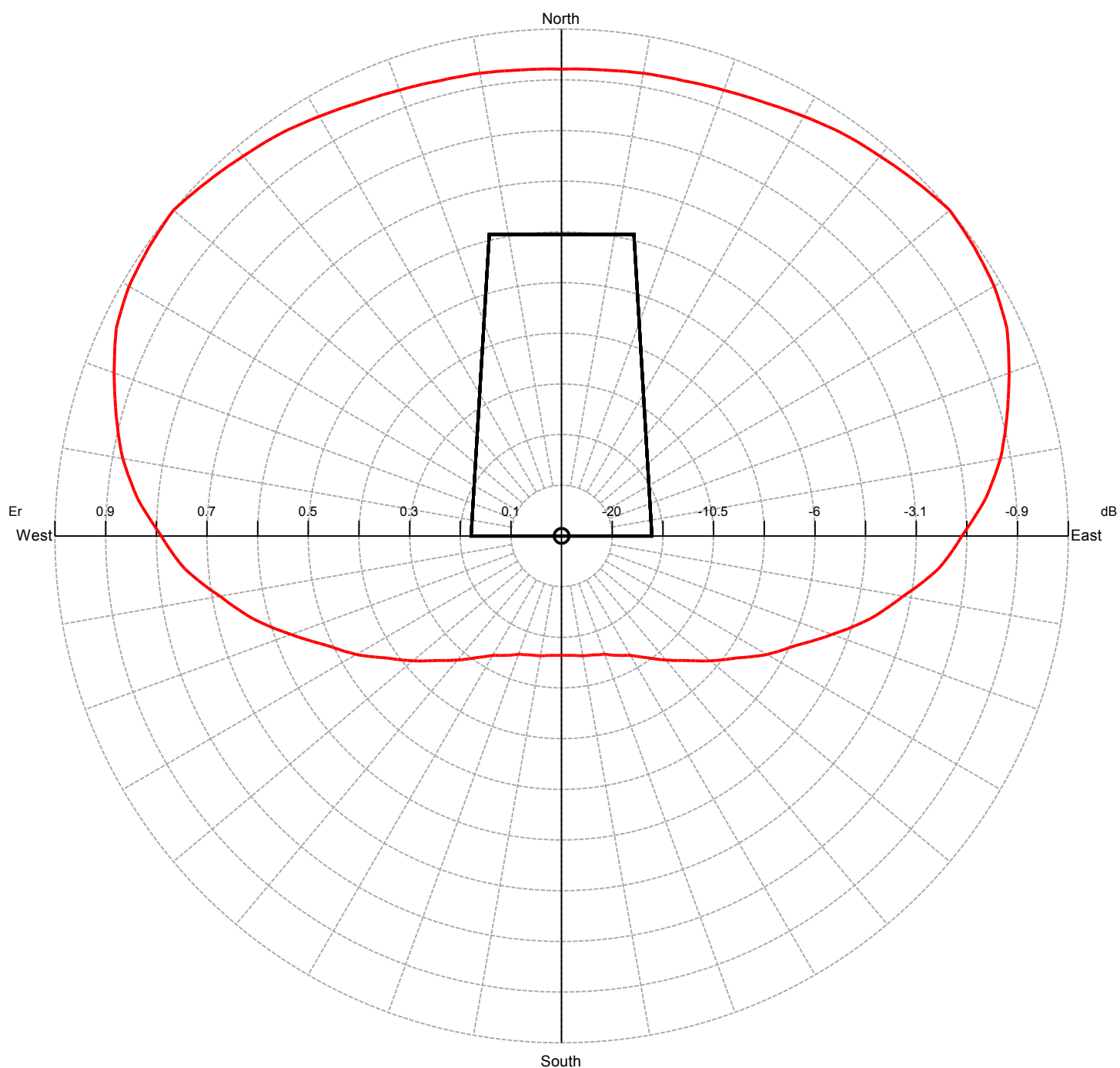
Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	8.8	90	7.5	180	-3.0	270	7.5
10	8.9	100	6.2	190	-2.9	280	8.4
20	9.0	110	4.6	200	-2.6	290	9.0
30	9.1	120	2.9	210	-1.8	300	9.4
40	9.3	130	1.2	220	-0.4	310	9.5
50	9.5	140	-0.4	230	1.2	320	9.3
60	9.4	150	-1.8	240	2.9	330	9.1
70	9.0	160	-2.6	250	4.6	340	9.0
80	8.4	170	-2.9	260	6.2	350	8.9

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Horizontal diagram at 0.0° depres. (Total Antenna)



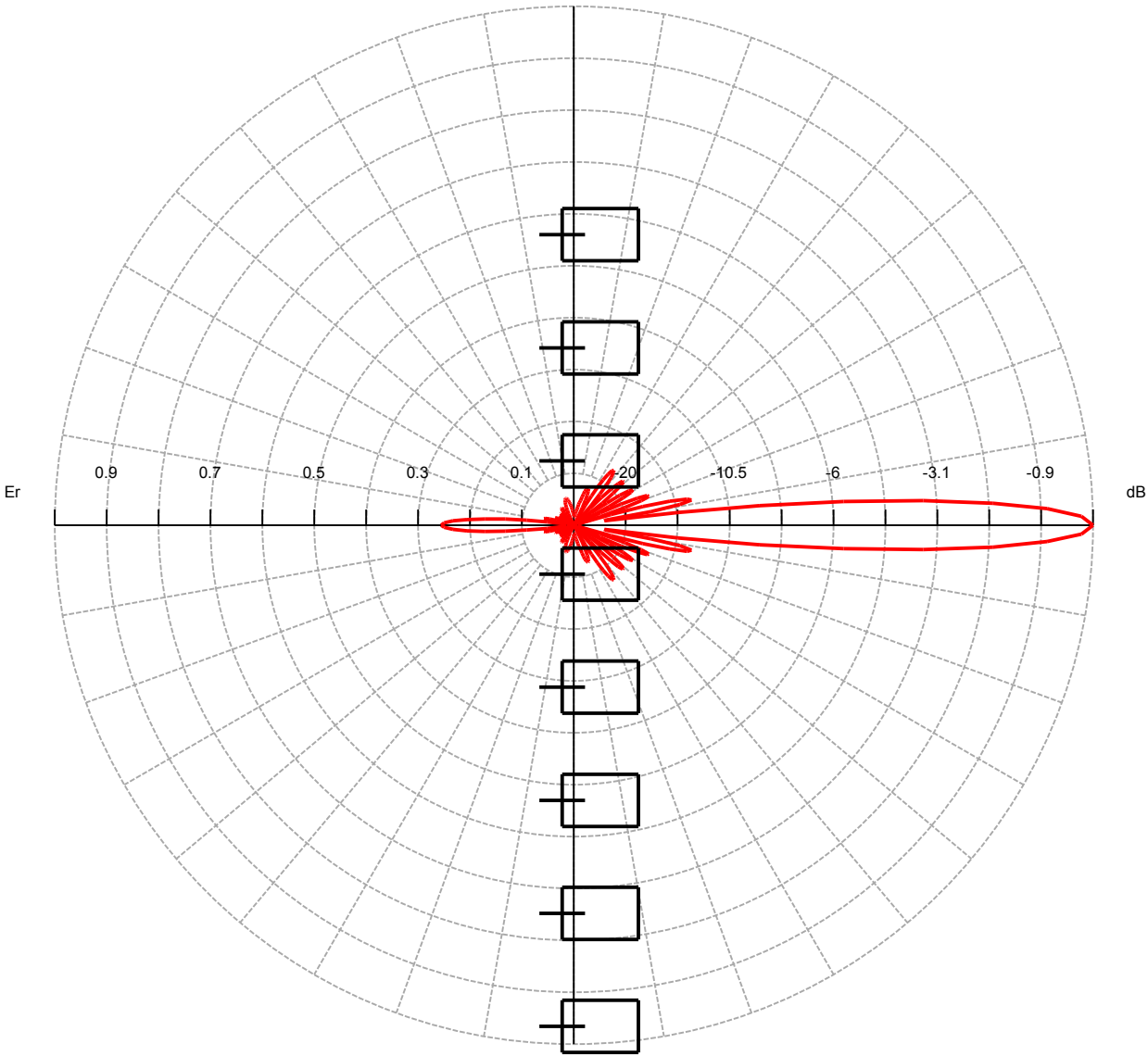
0.0° depres. (Total Antenna), Gain (dBd): 9.53

ERP T.Max(KW): 8.9667 ERP E.Max(KW): 8.9667

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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 8.81

ERP T.Max(KW): 7.6059 ERP E.Max(KW): 7.6059