

TX station: 2xAkg77
Gain solid integration : disabled

Site Name: Labelitaly

General data of Antenna System

TX station	2xAkg77
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 H.P. CIRC. POL. FM 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 H.P. CIRC. P
Band start(MHz)	88
Band stop(MHz)	108
diagrams Frequency(MHz)	98
Polariz (H,V,C,X)	C
Vertical dist (cm)	260
Height (cm)	124
Width (cm)	115
Thickness (cm)	150
Weight (Kg)	12
Maximum power (KW)	5
Gain (dBd)	-1.5
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	21
R.C.Phase (°)	0

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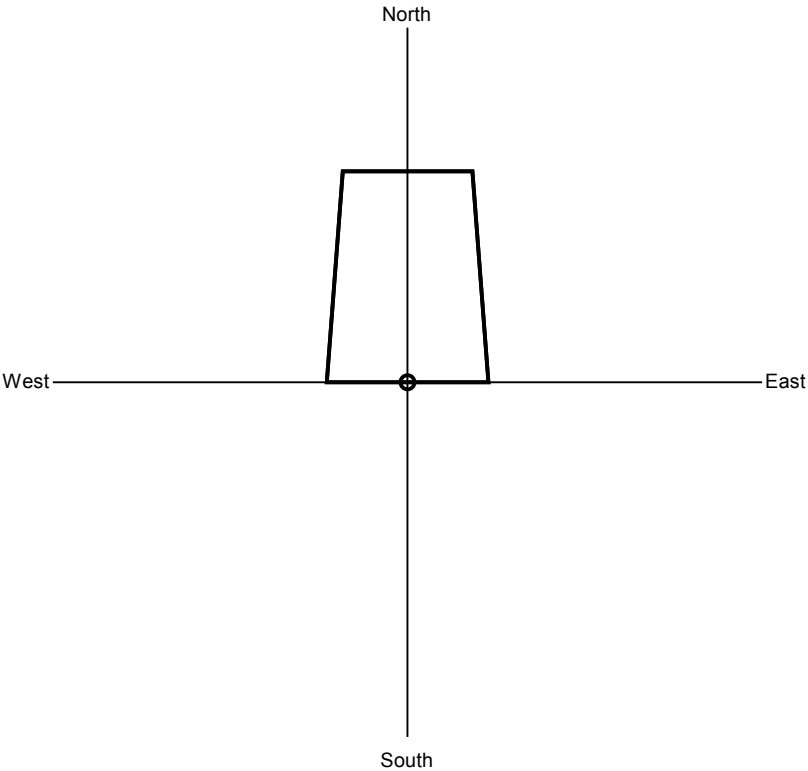
Geometr. and electrical data of Antenna System

	<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	50.000	0	0	0	+0.0	1.30	0.0	0.0	1	1	0.0	0.0
2	50.000	0	0	0	+0.0	-1.30	0.0	0.0	1	1	0.0	0.0

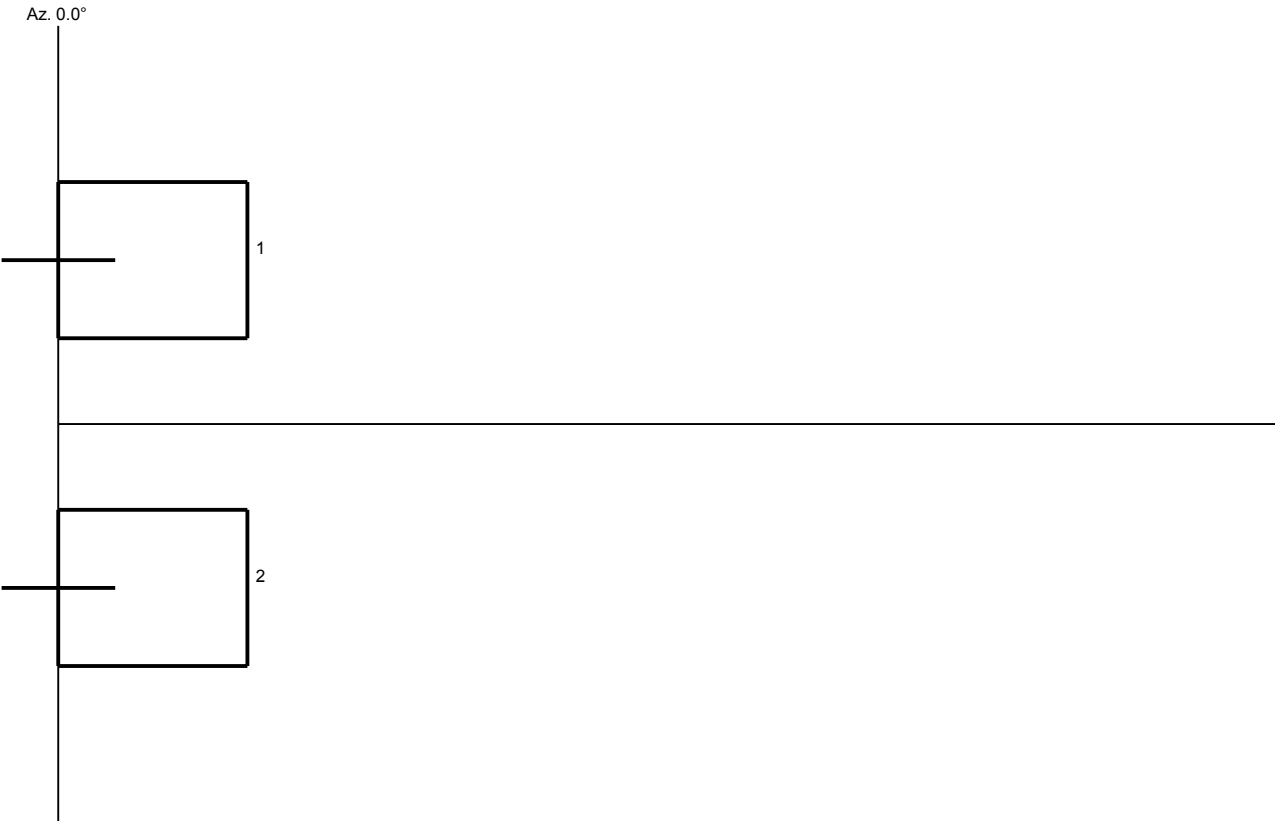
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Plan of antenna system



Side of antenna system



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Antennas arrays data

A. Antennas array azimuth (°/N)	0
B. Number of antennas	2
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)	1.51
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	1.51
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	1.51
K. Effec. max gain (times)	1.42
L. Effec. max power [E * K] (KW)	1.4159
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	300

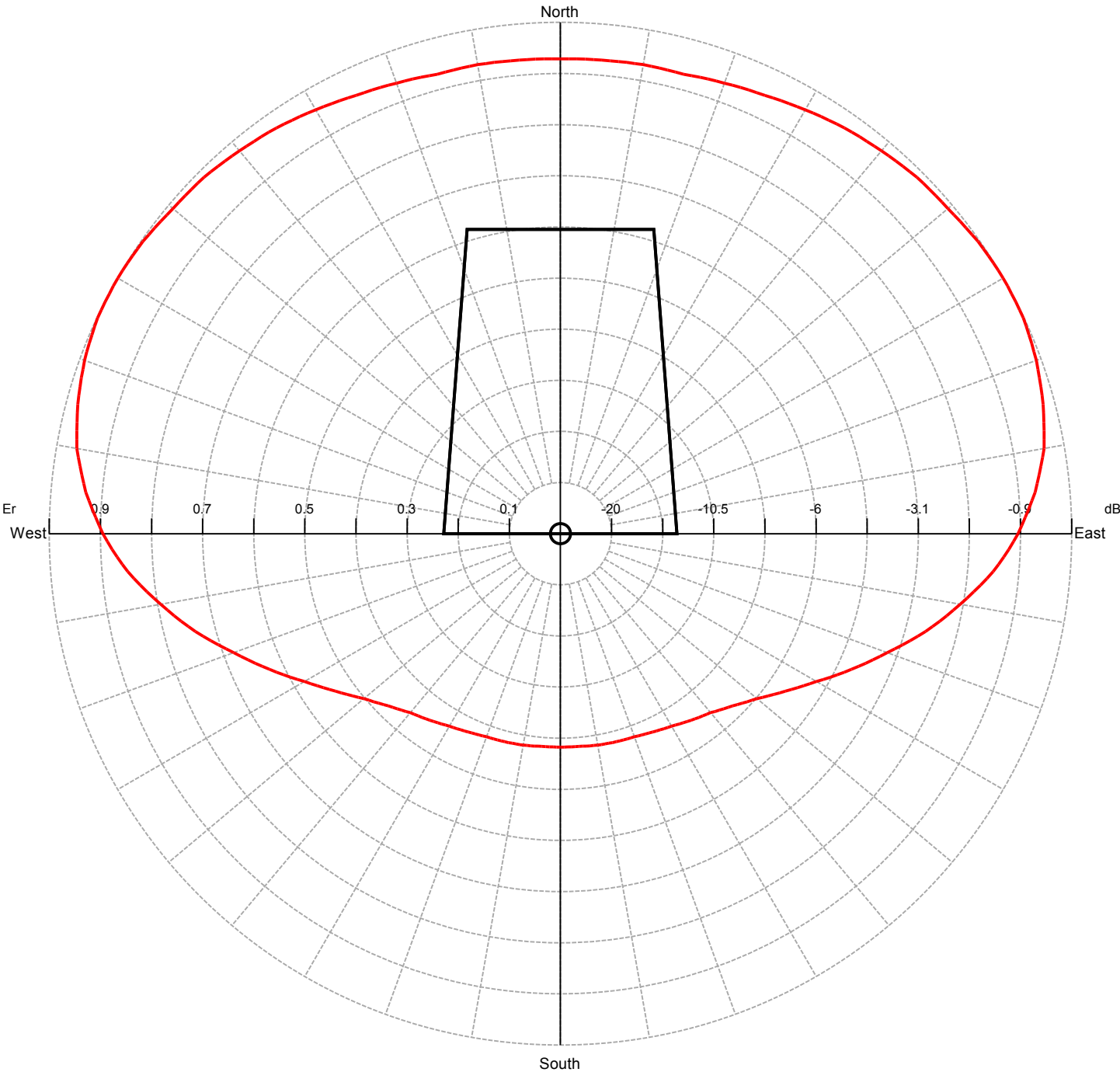
Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	0.9	90	0.5	180	-6.1	270	0.5
10	0.9	100	-0.5	190	-6.0	280	1.2
20	1.0	110	-1.8	200	-6.0	290	1.4
30	1.1	120	-3.2	210	-5.7	300	1.5
40	1.3	130	-4.5	220	-5.3	310	1.4
50	1.4	140	-5.3	230	-4.5	320	1.3
60	1.5	150	-5.7	240	-3.2	330	1.1
70	1.4	160	-6.0	250	-1.8	340	1.0
80	1.2	170	-6.0	260	-0.5	350	0.9

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Horizontal diagram at 0.0° depres. (Total Antenna)

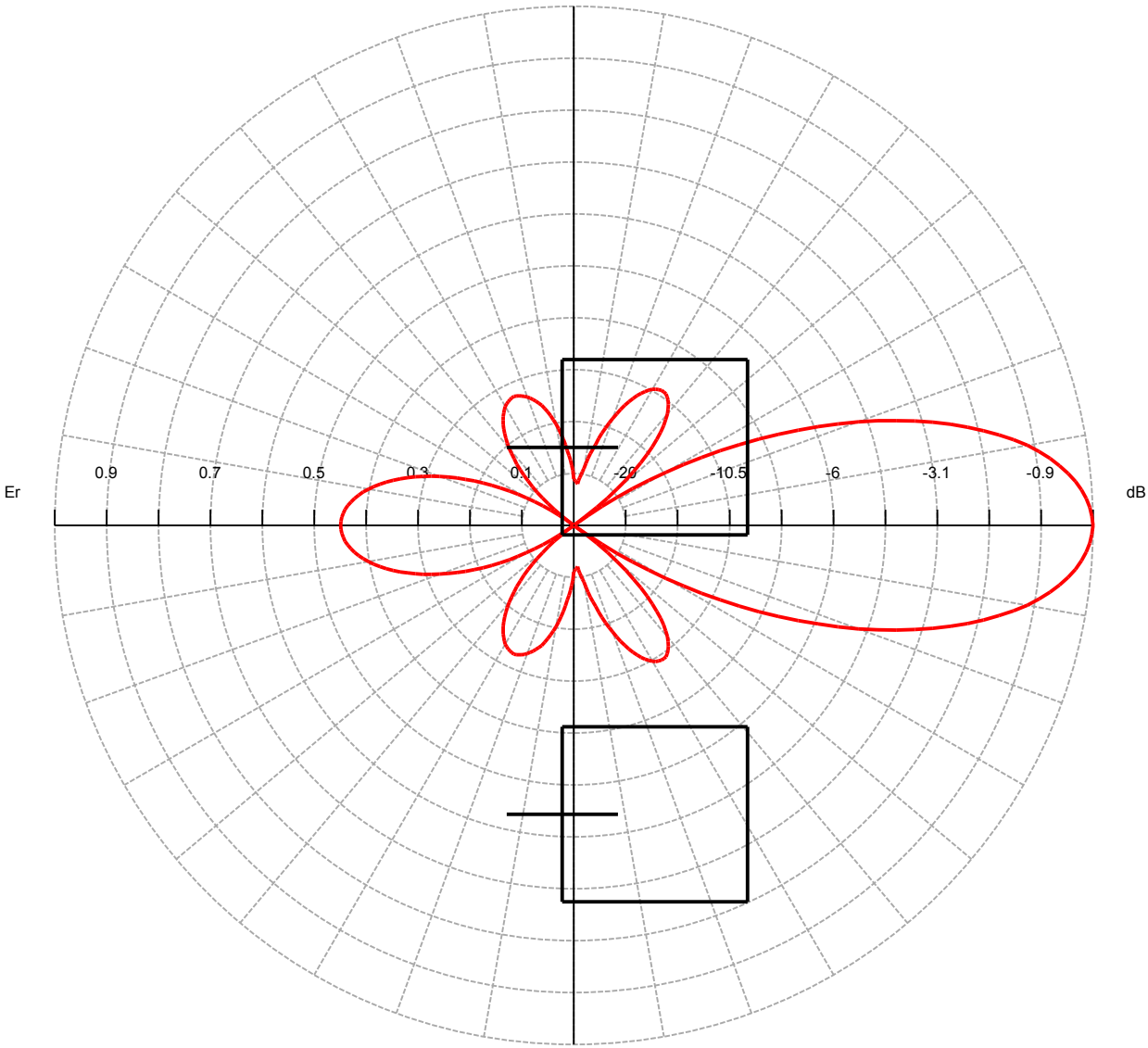


0.0° depres. (Total Antenna), Gain (dBd): 1.51 ERP T.Max(KW): 1.4159 ERP E.Max(KW): 1.4159

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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 0.87

ERP T.Max(KW): 1.2212 ERP E.Max(KW): 1.2212