TX station: 2xAkg77-r
Gain solid integration : disabled

Site Name: Labelitaly

General data of Antenna System

TX station	2xAkg77-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

	Antenna type 1
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

	Power (%)	*Tilt (°)*	*Az. (°/N)*	*Phase (°)*	*V dist. (m)*	*Scr-d (cm)*	*Scr-Az (°/N)*	*Rot. (1÷4)*	*Type (1÷2)*	*L cables (cm)*	*Car. phase (°)*
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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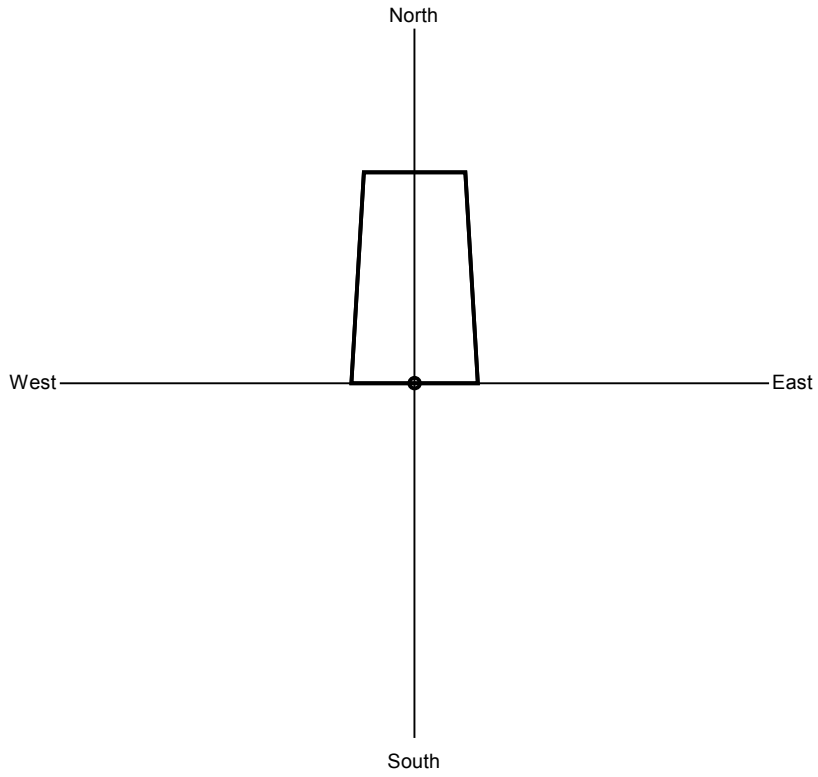
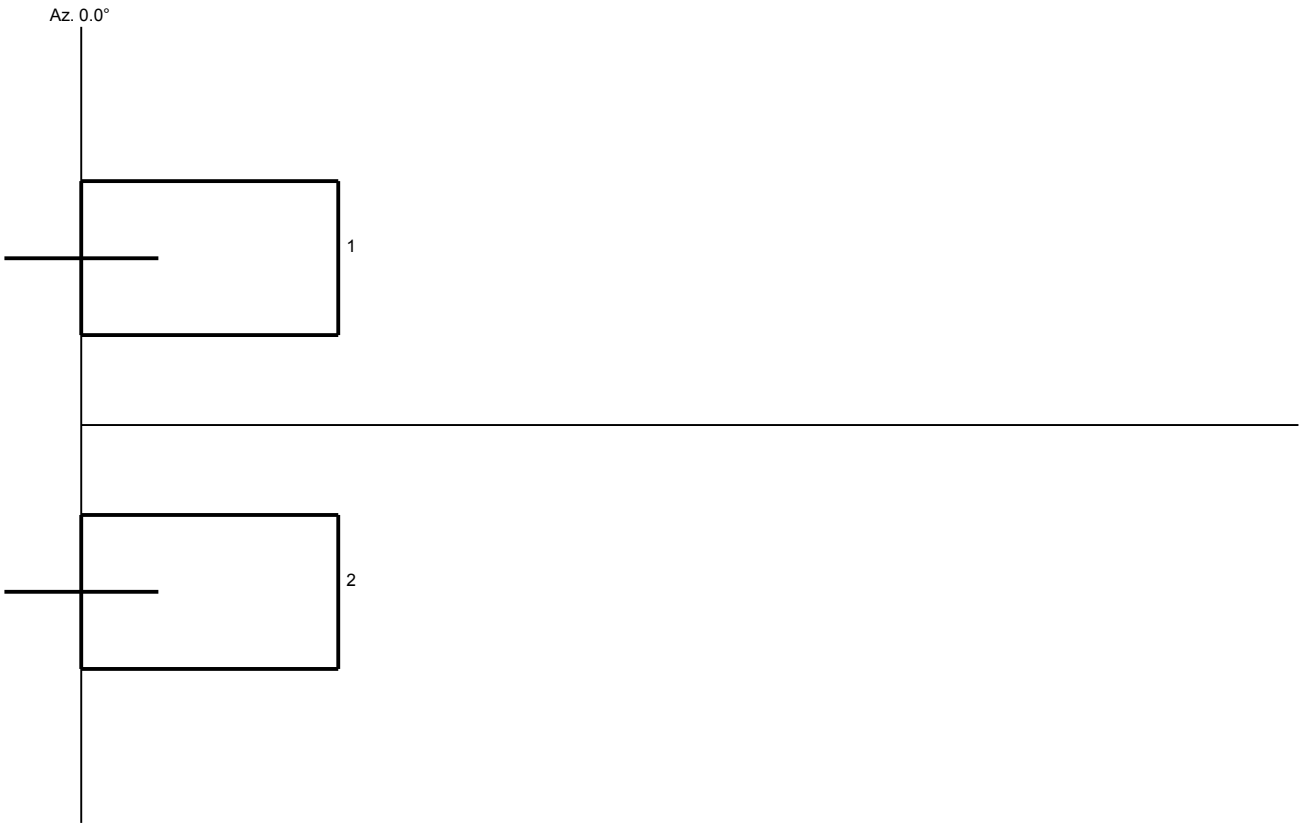
Plan of antenna system



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)	3.86
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	3.86
I. Compensation losses (dB)	0.35
J. Effec. max gain [H - I] (dBd)	3.51
K. Effec. max gain (times)	2.24
L. Effec. max power [E * K] (KW)	2.2421
M. Max power depr. angle (°)	-0.3
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	2.8	90	1.5	180	-9.1	270	1.5
10	2.8	100	0.2	190	-8.9	280	2.4
20	2.9	110	-1.4	200	-8.6	290	3.0
30	3.1	120	-3.1	210	-7.8	300	3.4
40	3.3	130	-4.8	220	-6.4	310	3.5
50	3.5	140	-6.4	230	-4.8	320	3.3
60	3.4	150	-7.8	240	-3.1	330	3.1
70	3.0	160	-8.6	250	-1.4	340	2.9
80	2.4	170	-8.9	260	0.2	350	2.8

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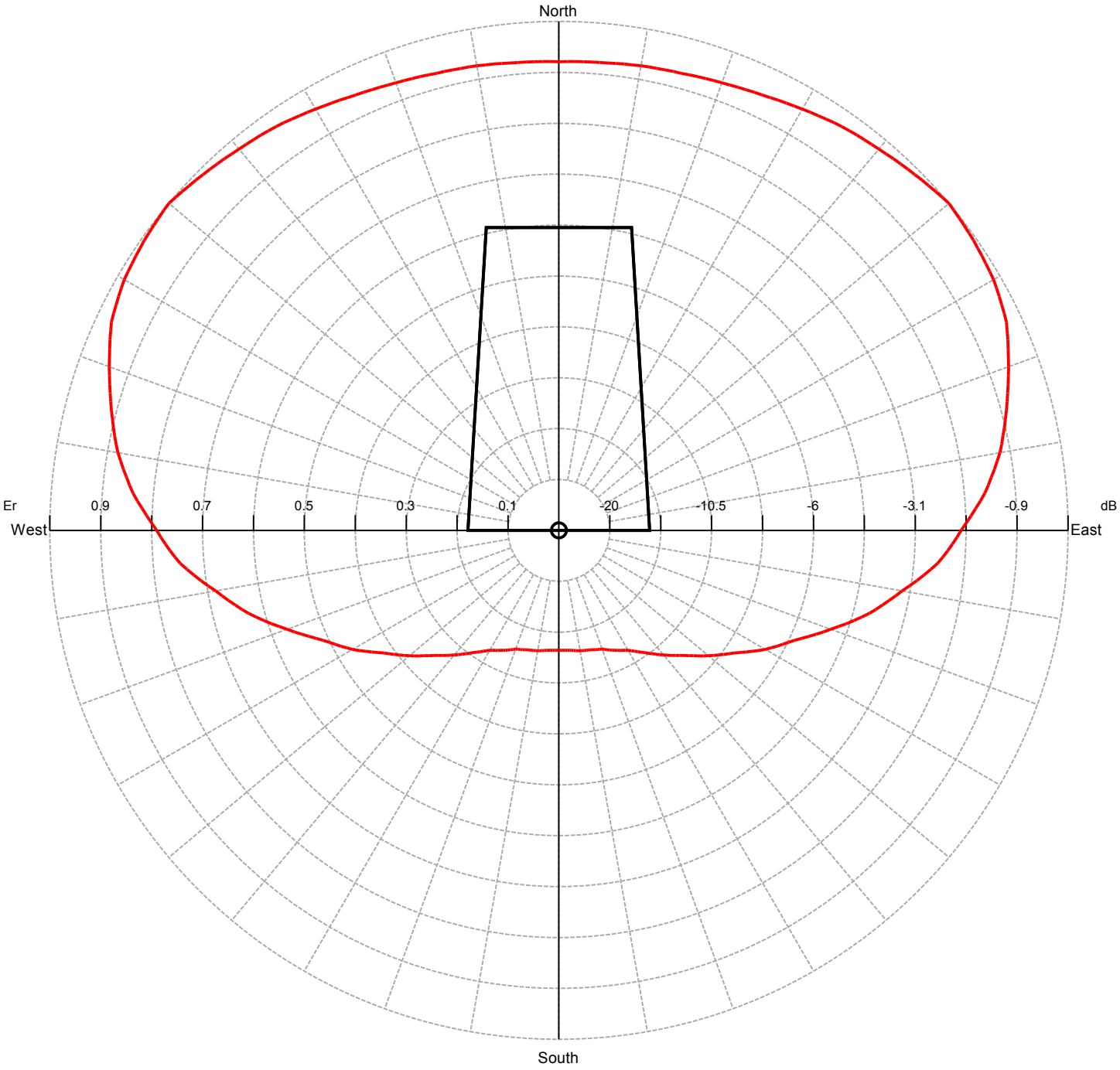
Horizontal diagram at 0.0° depres. (Total Antenna)



0.0° depres. (Total Antenna), Gain (dBd): 3.51

ERP T.Max(KW): 2.2417 ERP E.Max(KW): 2.2417

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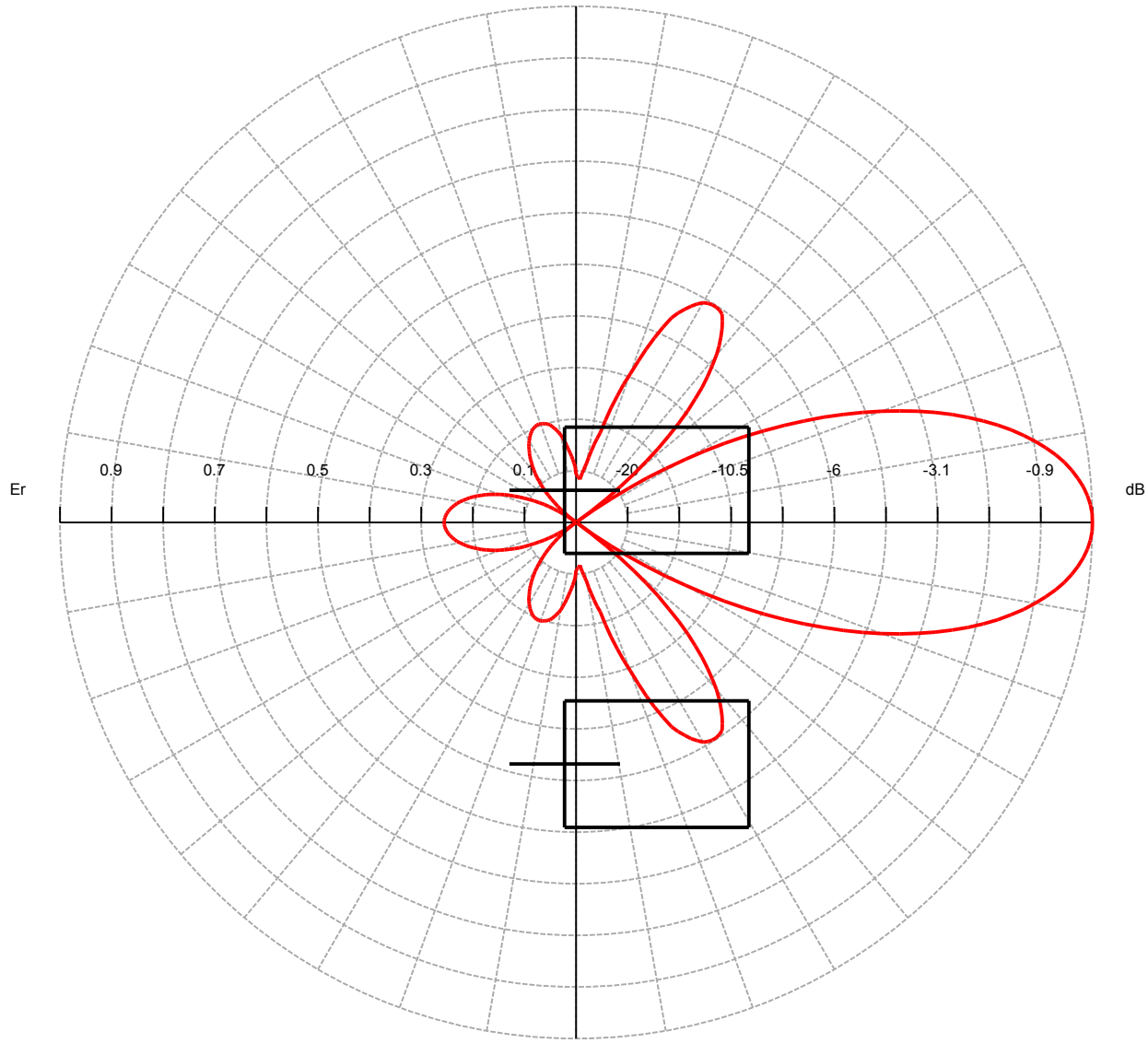
Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 2.79

ERP T.Max(KW): 1.9015 ERP E.Max(KW): 1.9015