

TX station: 6xAkg7

Gain solid integration : disabled

Site Name: Labelitaly

General data of Antenna System

TX station	6xAkg7
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_7 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_7 CIRC. POL. FM
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)	3
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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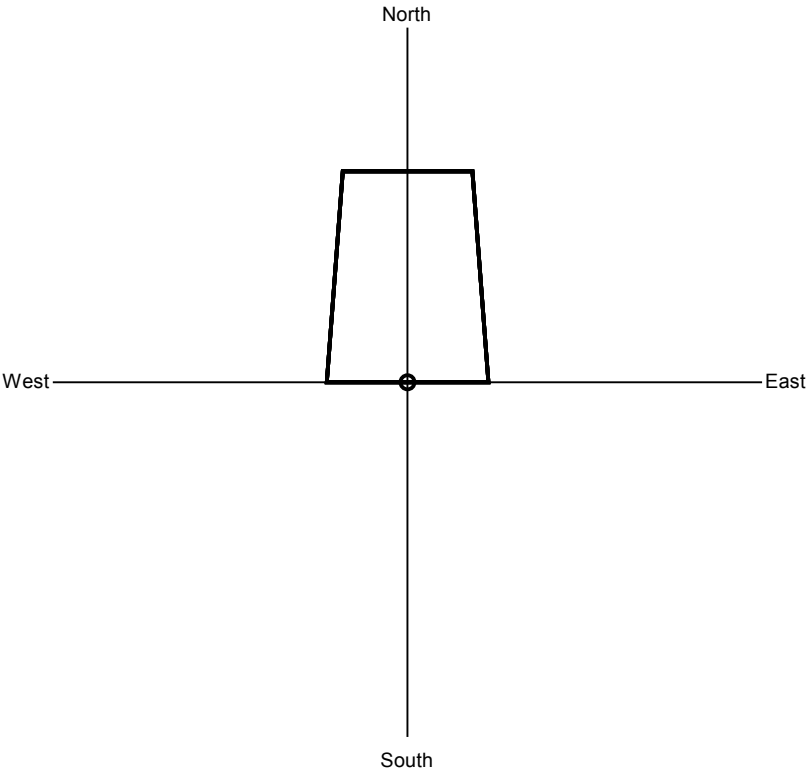
Geometr. and electrical data of Antenna System

	<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	16.667	0	0	0 +0.0	6.50	0.0	0.0	1	1	0.0	0.0
2	16.667	0	0	0 +0.0	3.90	0.0	0.0	1	1	0.0	0.0
3	16.667	0	0	0 +0.0	1.30	0.0	0.0	1	1	0.0	0.0
4	16.667	0	0	0 +0.0	-1.30	0.0	0.0	1	1	0.0	0.0
5	16.667	0	0	0 +0.0	-3.90	0.0	0.0	1	1	0.0	0.0
6	16.667	0	0	0 +0.0	-6.50	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	6
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)	6.28
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	6.28
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	6.28
K. Effec. max gain (times)	4.25
L. Effec. max power [E * K] (KW)	4.2477
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	300

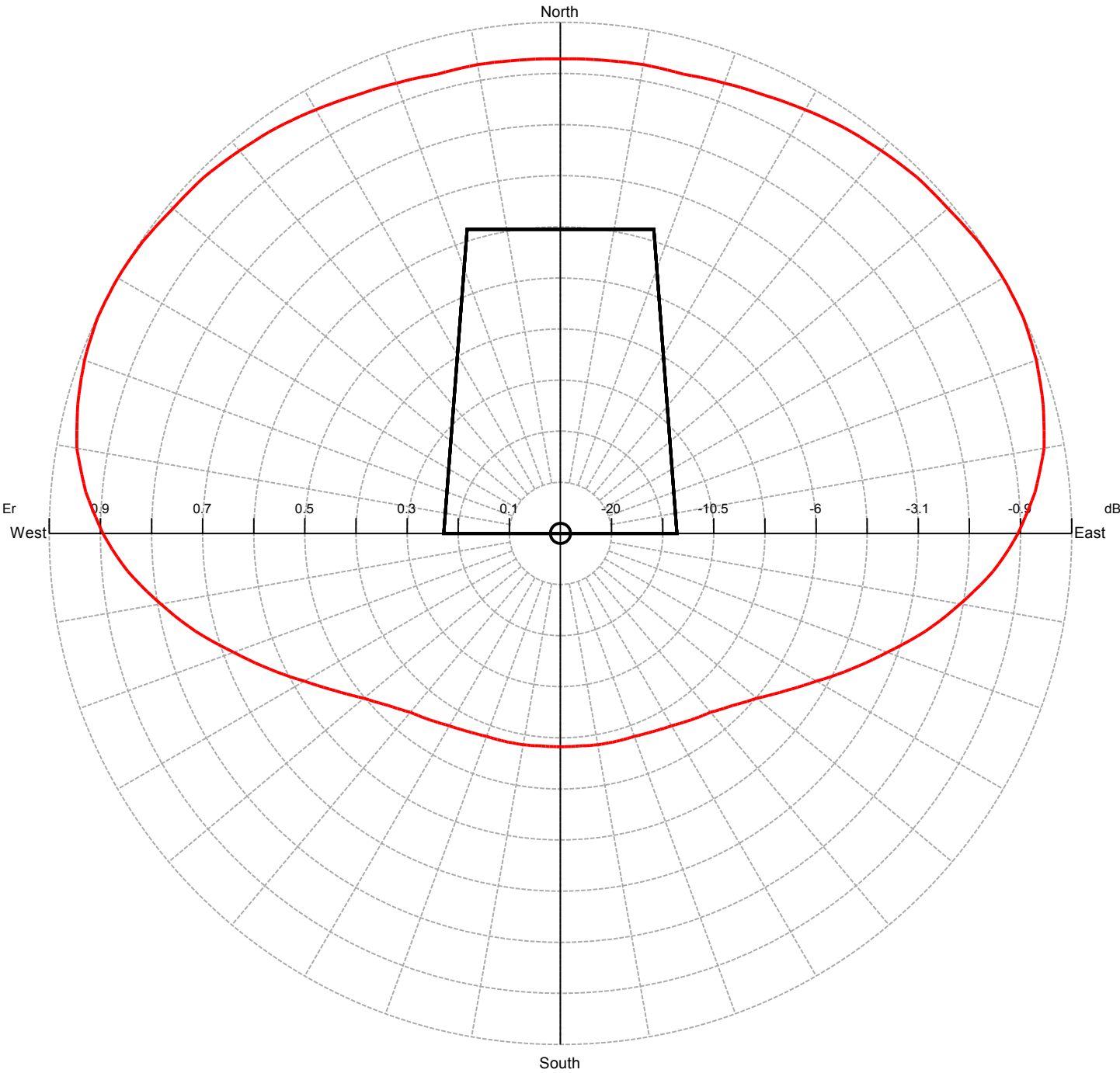
Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	5.6	90	5.3	180	-1.3	270	5.3
10	5.7	100	4.3	190	-1.3	280	5.9
20	5.7	110	2.9	200	-1.2	290	6.2
30	5.9	120	1.5	210	-1.0	300	6.3
40	6.1	130	0.3	220	-0.5	310	6.2
50	6.2	140	-0.5	230	0.3	320	6.1
60	6.3	150	-1.0	240	1.5	330	5.9
70	6.2	160	-1.2	250	2.9	340	5.7
80	5.9	170	-1.3	260	4.3	350	5.7

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Horizontal diagram at 0.0° depres. (Total Antenna)



0.0° depres. (Total Antenna), Gain (dBd): 6.28 ERP T.Max(KW): 4.2477 ERP E.Max(KW): 4.2477

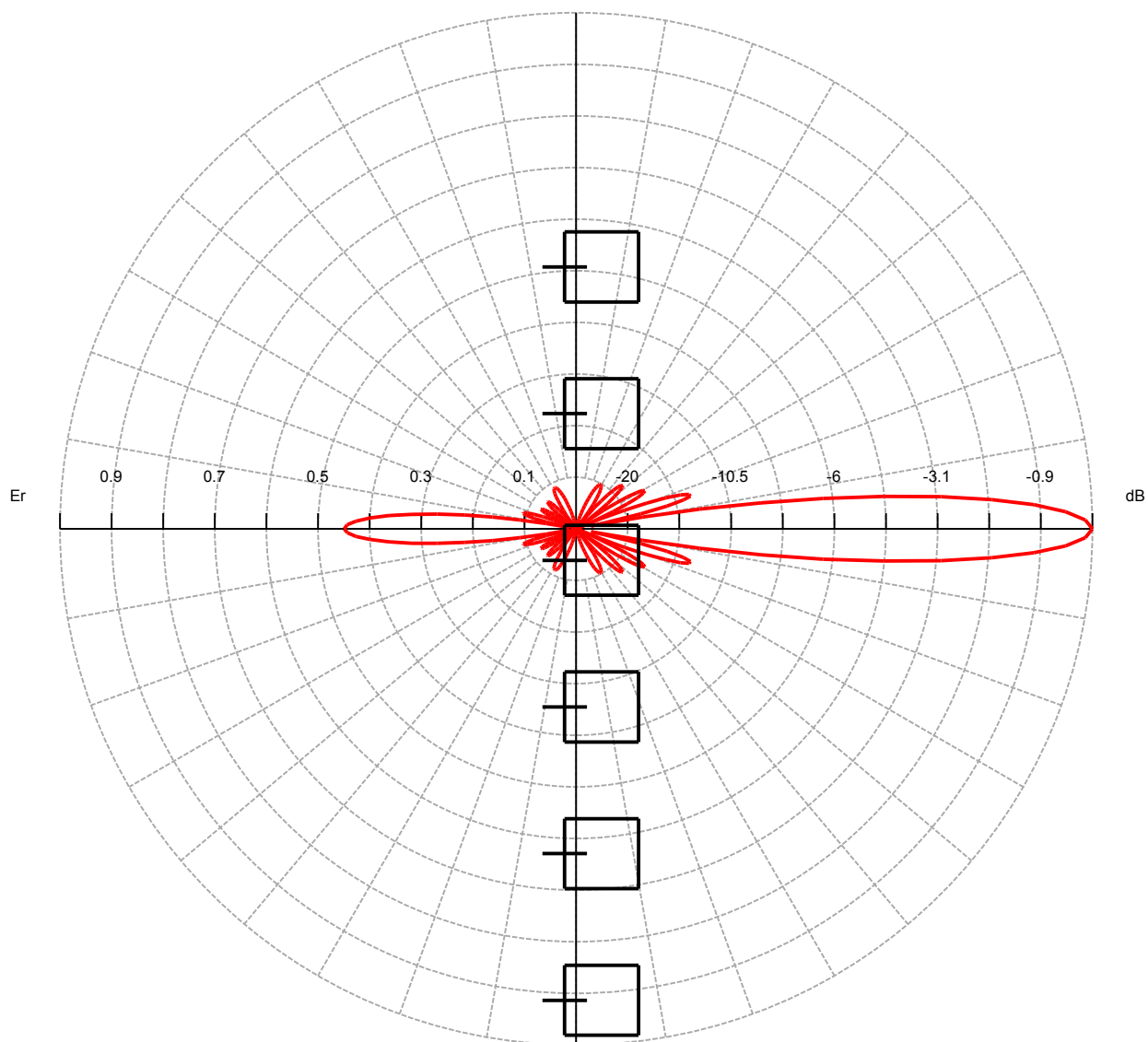
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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 5.64

ERP T.Max(KW): 3.6635 ERP E.Max(KW): 3.6635