

TX station: 4xAkg8

Gain solid integration : disabled

Site Name: Labelitaly

General data of Antenna System

TX station	4xAkg8
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_8 CIRC. POL. FM NB
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_8 CIRC. POL. FM
Band start(MHz)	98
Band stop(MHz)	98
diagrams Frequency(MHz)	98
Polariz (H,V,C,X)	C
Vertical dist (cm)	260
Height (cm)	58
Width (cm)	35
Thickness (cm)	85
Weight (Kg)	4
Maximum power (KW)	0.5
Gain (dBd)	-1.5
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	25
R.C.Phase (°)	0

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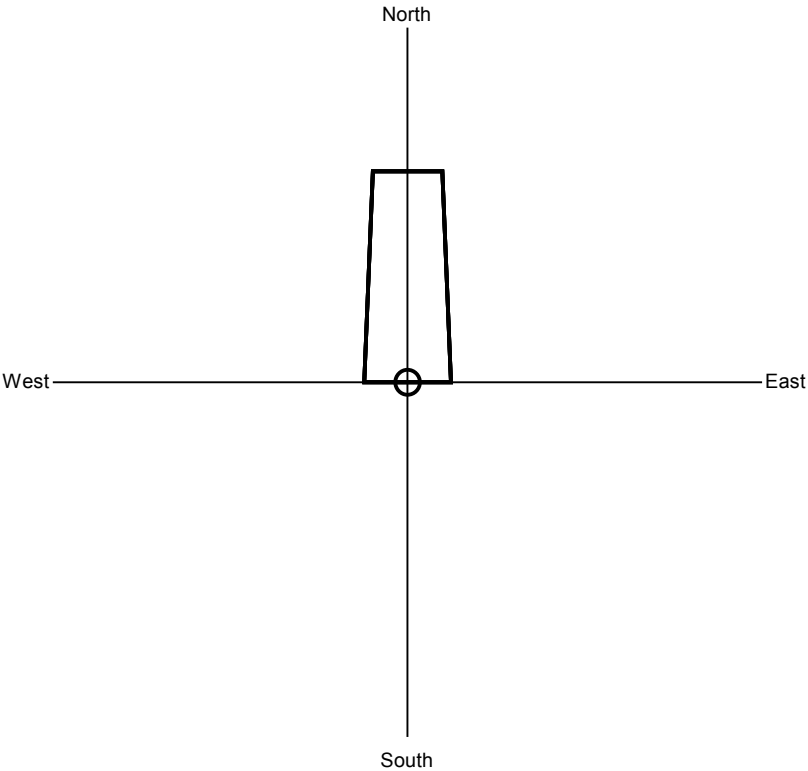
Geometr. and electrical data of Antenna System

	<i>Power</i> <i>(%)</i>	<i>Tilt</i> <i>(°)</i>	<i>Az.</i> <i>(°/N)</i>	<i>Phase</i> <i>(°)</i>	<i>V dist.</i> <i>(m)</i>	<i>Scr-d</i> <i>(cm)</i>	<i>Scr-Az</i> <i>(°/N)</i>	<i>Rot.</i> <i>(1÷4)</i>	<i>Type</i> <i>(1÷2)</i>	<i>L cables</i> <i>(cm)</i>	<i>Car. phase</i> <i>(°)</i>
1	25.000	0	0	0 +0.0	3.90	0.0	0.0	1	1	0.0	0.0
2	25.000	0	0	0 +0.0	1.30	0.0	0.0	1	1	0.0	0.0
3	25.000	0	0	0 +0.0	-1.30	0.0	0.0	1	1	0.0	0.0
4	25.000	0	0	0 +0.0	-3.90	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	4
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)	4.52
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	4.52
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	4.52
K. Effec. max gain (times)	2.83
L. Effec. max power [E * K] (KW)	2.8318
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	300

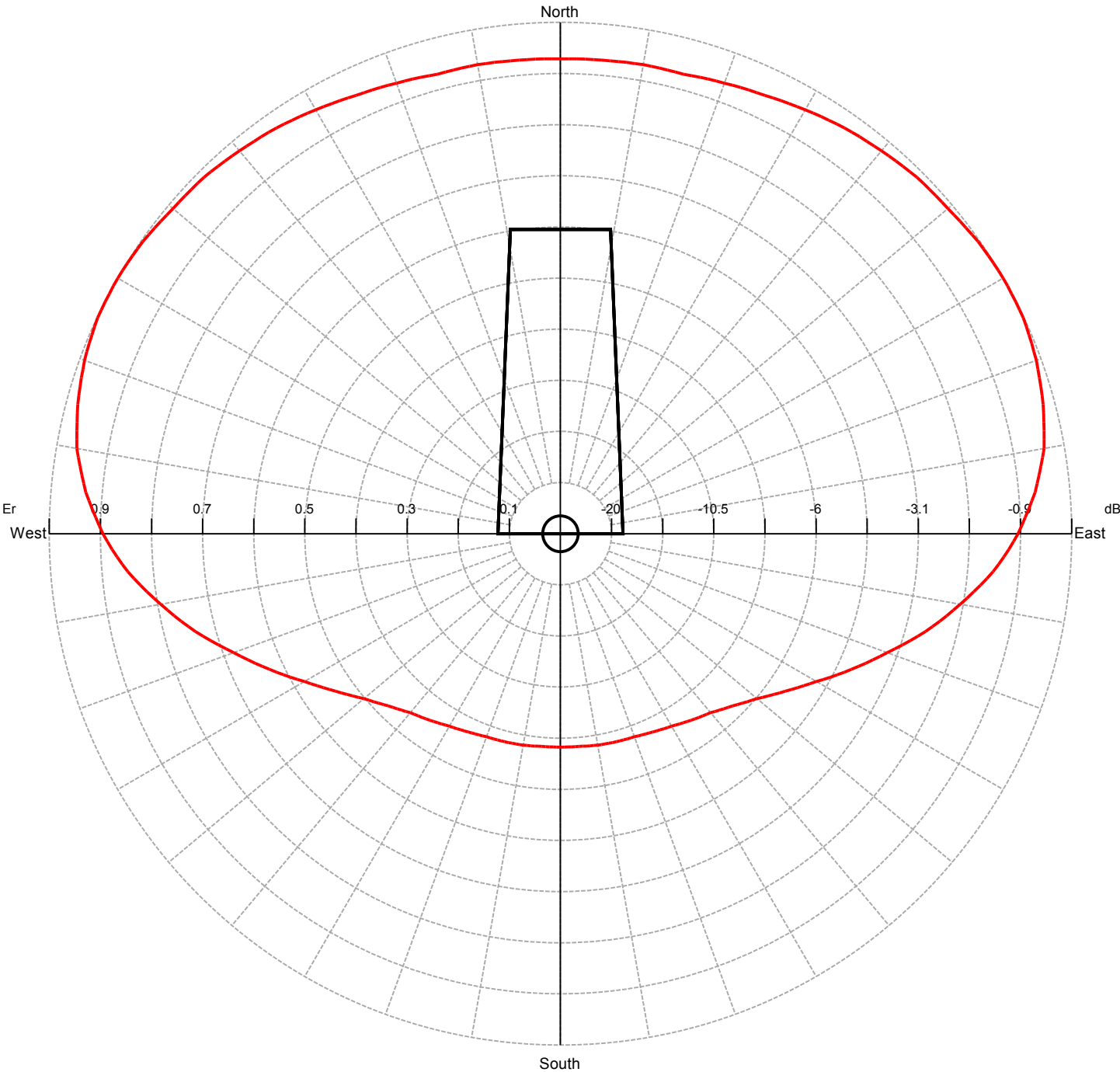
Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	3.9	90	3.6	180	-3.1	270	3.6
10	3.9	100	2.5	190	-3.0	280	4.2
20	4.0	110	1.2	200	-3.0	290	4.4
30	4.1	120	-0.2	210	-2.7	300	4.5
40	4.3	130	-1.5	220	-2.3	310	4.4
50	4.4	140	-2.3	230	-1.5	320	4.3
60	4.5	150	-2.7	240	-0.2	330	4.1
70	4.4	160	-3.0	250	1.2	340	4.0
80	4.2	170	-3.0	260	2.5	350	3.9

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Horizontal diagram at 0.0° depres. (Total Antenna)

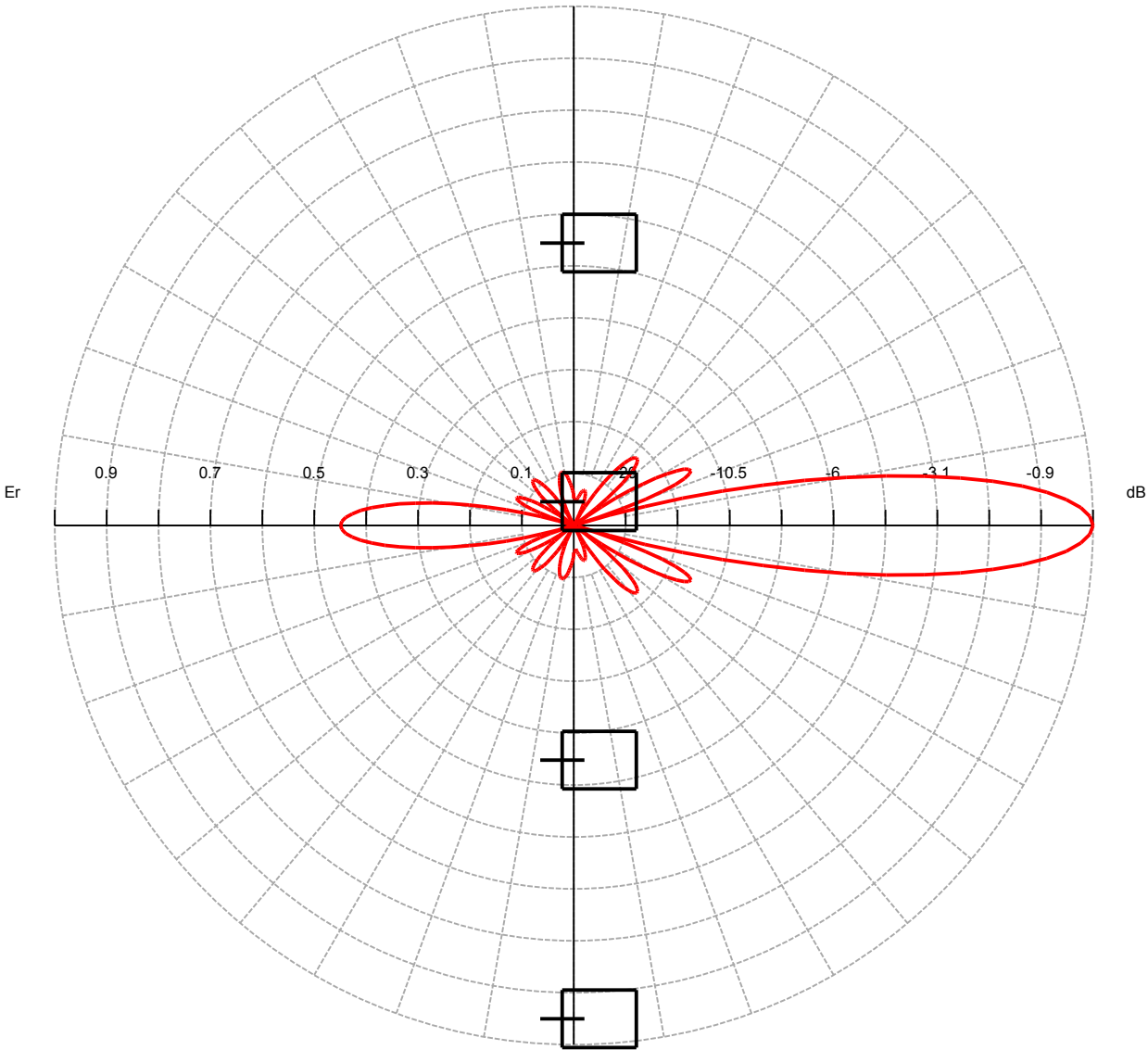


0.0° depres. (Total Antenna), Gain (dBd): 4.52 ERP T.Max(KW): 2.8318 ERP E.Max(KW): 2.8318

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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 3.88

ERP T.Max(KW): 2.4423 ERP E.Max(KW): 2.4423