

TX station: 2xAky3

Gain solid integration : disabled

Site Name: Labelitaly

General data of Antenna System

TX station	2xAky3
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-AKY_3 YAGI FM WB 3 ELEM.
Antenna base diagrams type 2	-
Polarization (H/V/C/X)	V
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	AKY_3 YAGI FM WB 3
Band start(MHz)	88
Band stop(MHz)	108
diagrams Frequency(MHz)	98
Polariz (H,V,C,X)	V
Vertical dist (cm)	260
Height (cm)	180
Width (cm)	6
Thickness (cm)	125
Weight (Kg)	13
Maximum power (KW)	3
Gain (dBd)	5.22
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	20
R.C.Phase (°)	0

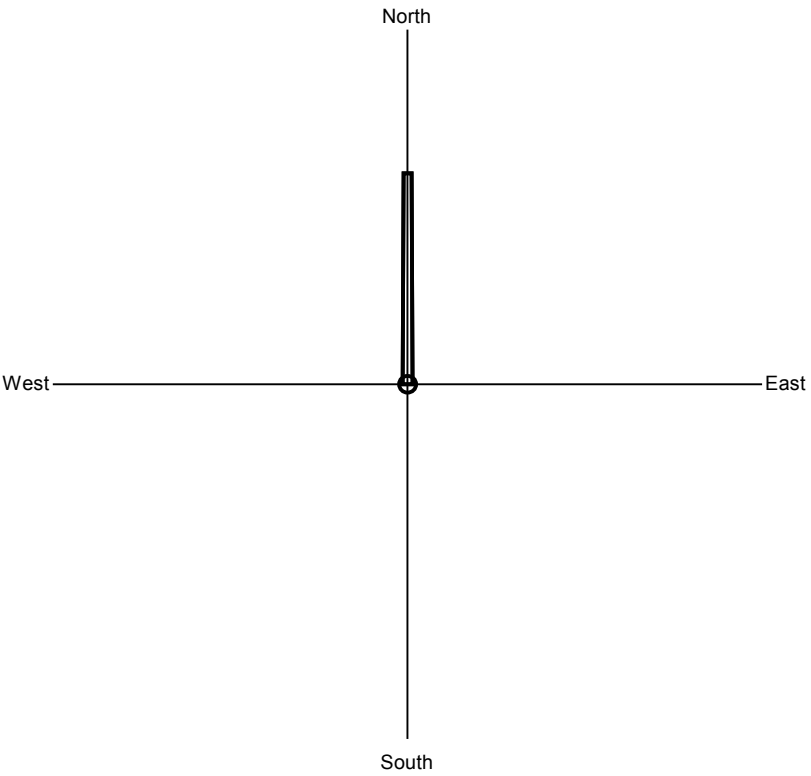
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Geometr. and electrical data of Antenna System

	<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	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

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)	8.23
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	8.23
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	8.23
K. Effec. max gain (times)	6.65
L. Effec. max power [E * K] (KW)	6.6532
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	0

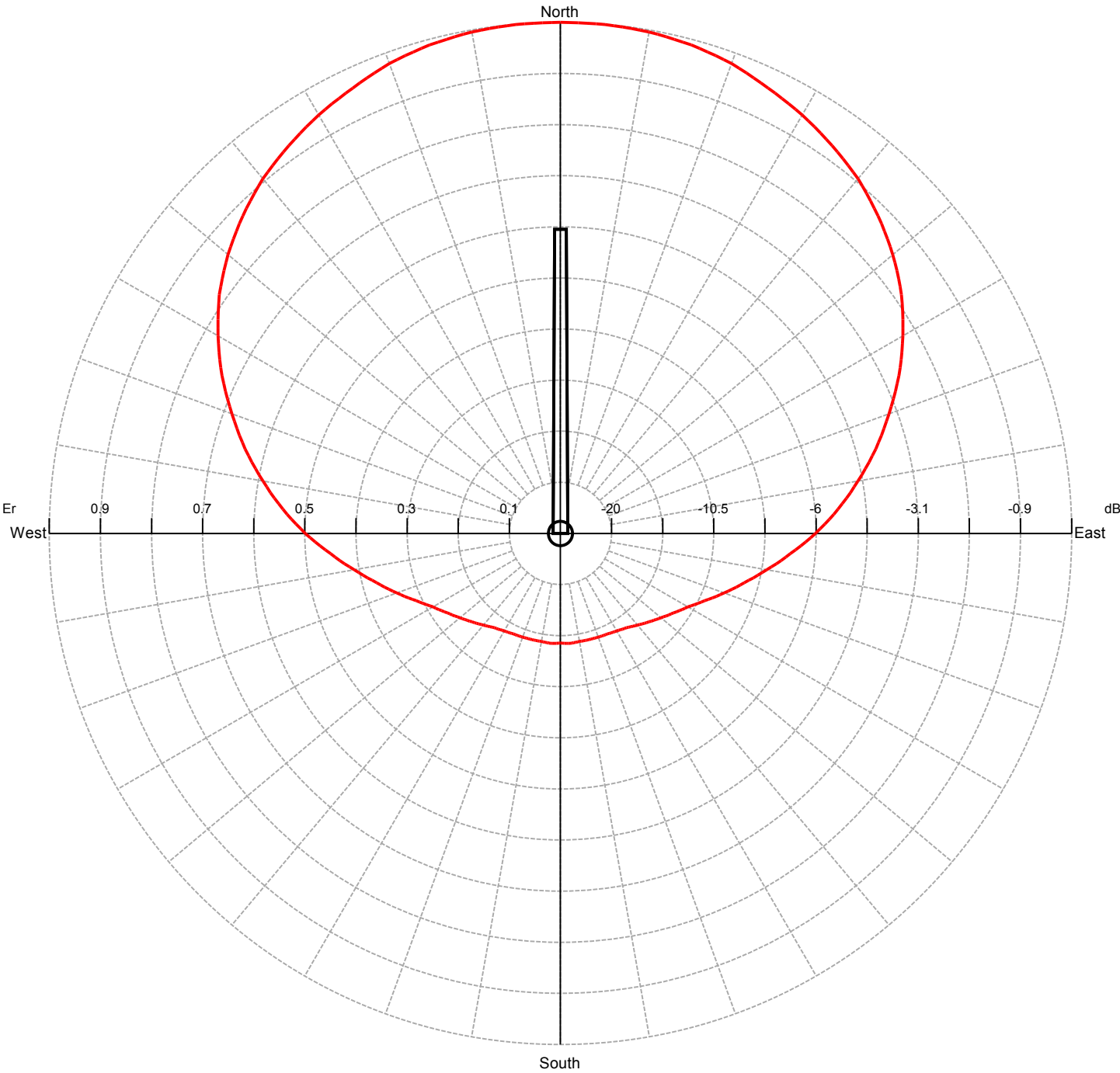
Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	8.2	90	2.2	180	-5.1	270	2.2
10	8.2	100	0.5	190	-5.1	280	3.7
20	8.0	110	-1.1	200	-5.1	290	4.9
30	7.7	120	-2.6	210	-4.9	300	6.0
40	7.4	130	-3.6	220	-4.4	310	6.8
50	6.8	140	-4.4	230	-3.6	320	7.4
60	6.0	150	-4.9	240	-2.6	330	7.7
70	4.9	160	-5.1	250	-1.1	340	8.0
80	3.7	170	-5.1	260	0.5	350	8.2

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Horizontal diagram at 0.0° depres. (Total Antenna)

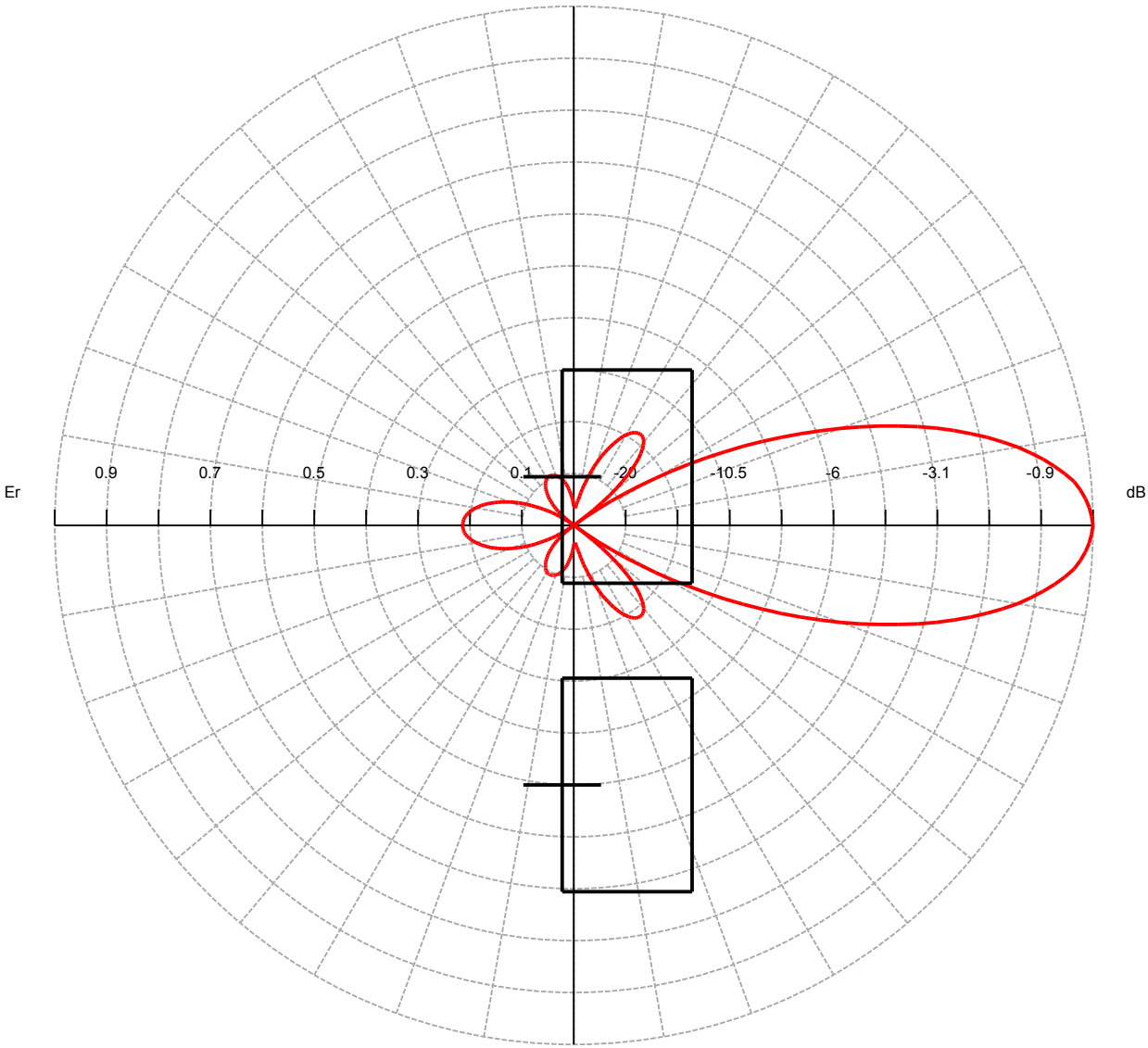


0.0° depres. (Total Antenna), Gain (dBd): 8.23 ERP T.Max(KW): 6.6532 ERP E.Max(KW): 6.6532

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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 8.23

ERP T.Max(KW): 6.6532 ERP E.Max(KW): 6.6532