

TX station: 4xBkv3

Gain solid integration : enabled

Site Name: Labelitaly

**General data of Antenna System**

TX station	4xBkv3
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)	200.000
Antenna system central frequency (MHz)	200.000
Antenna base diagrams type 1	LABEL ITALY-BKV_3 YAGI 3 ELEM. VHF WB
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	BKV_3 YAGI 3 ELEM.
Band start(MHz)	174
Band stop(MHz)	225
diagrams Frequency(MHz)	200
Polariz (H,V,C,X)	V
Vertical dist (cm)	135
Height (cm)	88
Width (cm)	6
Thickness (cm)	79
Weight (Kg)	5
Maximum power (KW)	2
Gain (dBd)	5
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	20
R.C.Phase (°)	0

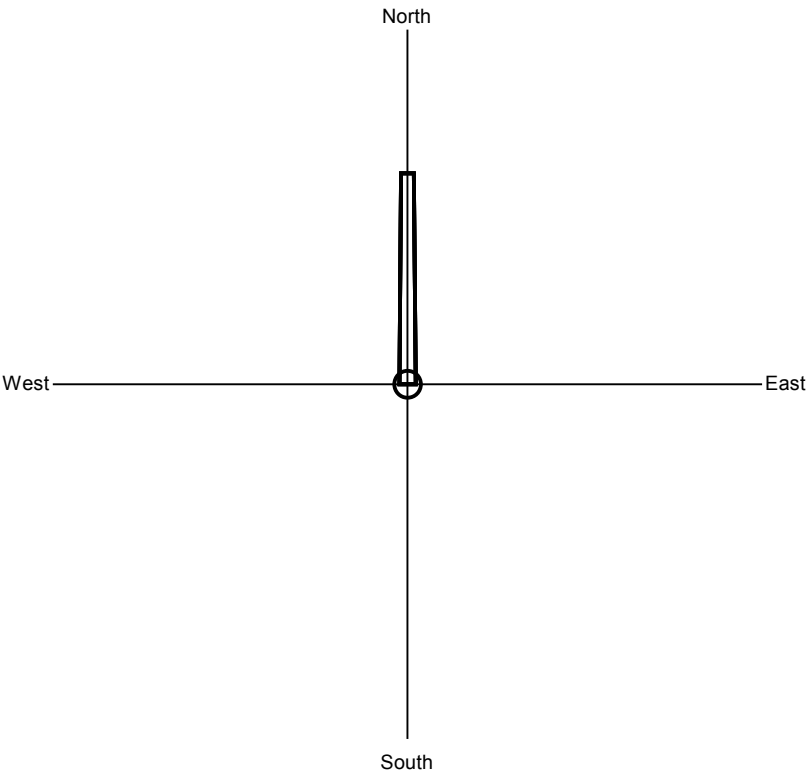
TX station: 4xBkv3  
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Geometr. and electrical data of Antenna System

	<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	25.000	0	0	0 +0.0	1.95	0.0	0.0	1	1	0.0	0.0
2	25.000	0	0	0 +0.0	0.65	0.0	0.0	1	1	0.0	0.0
3	25.000	0	0	0 +0.0	-0.65	0.0	0.0	1	1	0.0	0.0
4	25.000	0	0	0 +0.0	-1.95	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	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)	10.29
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	10.29
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	10.29
K. Effec. max gain (times)	10.70
L. Effec. max power [E * K] (KW)	10.6999
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	0

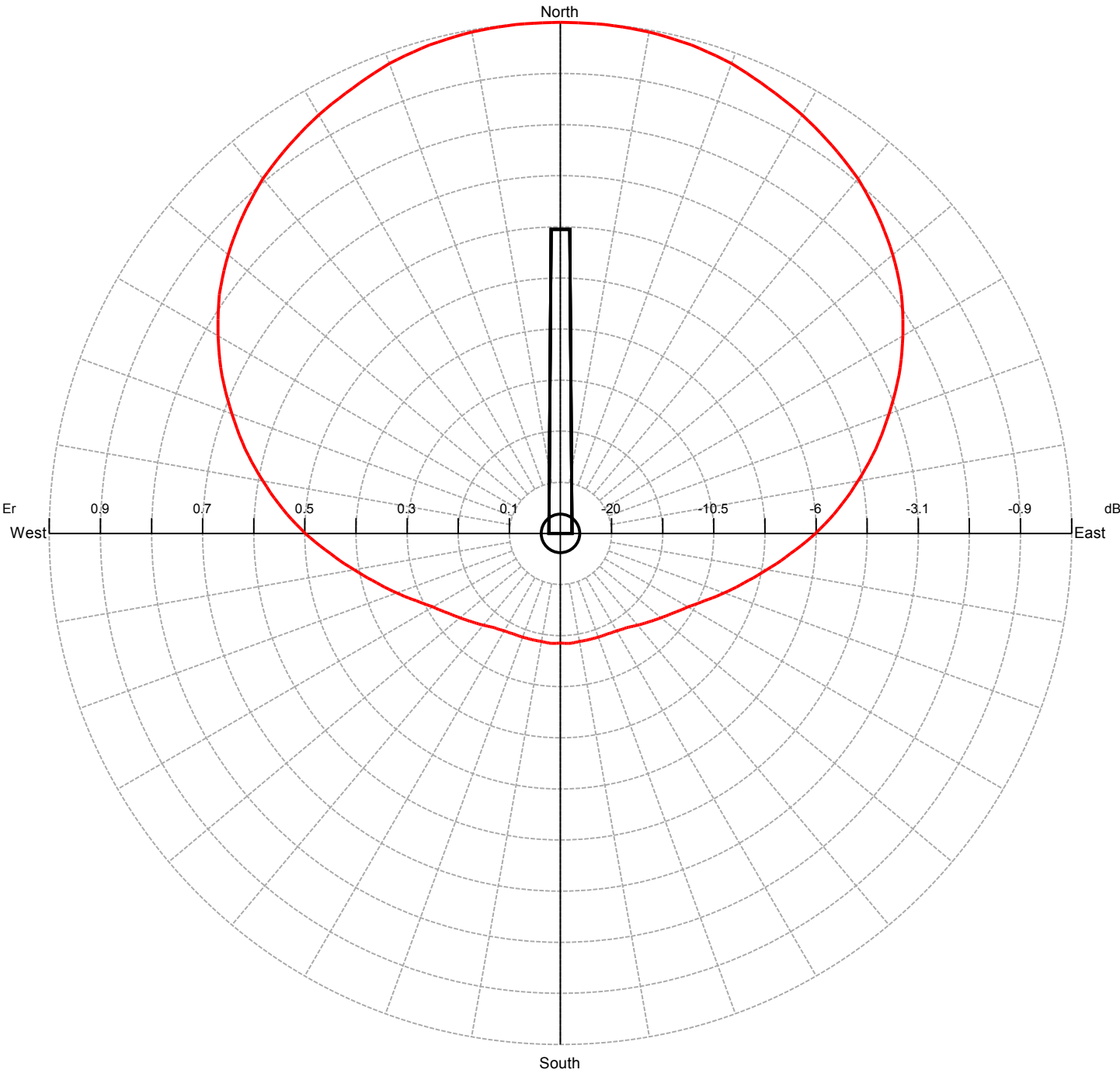
Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	10.3	90	4.3	180	-3.1	270	4.3
10	10.3	100	2.5	190	-3.1	280	5.7
20	10.1	110	0.9	200	-3.0	290	7.0
30	9.8	120	-0.5	210	-2.9	300	8.1
40	9.4	130	-1.5	220	-2.3	310	8.9
50	8.9	140	-2.3	230	-1.5	320	9.4
60	8.1	150	-2.9	240	-0.5	330	9.8
70	7.0	160	-3.0	250	0.9	340	10.1
80	5.7	170	-3.1	260	2.5	350	10.3

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Horizontal diagram at 0.0° depres. (Total Antenna)

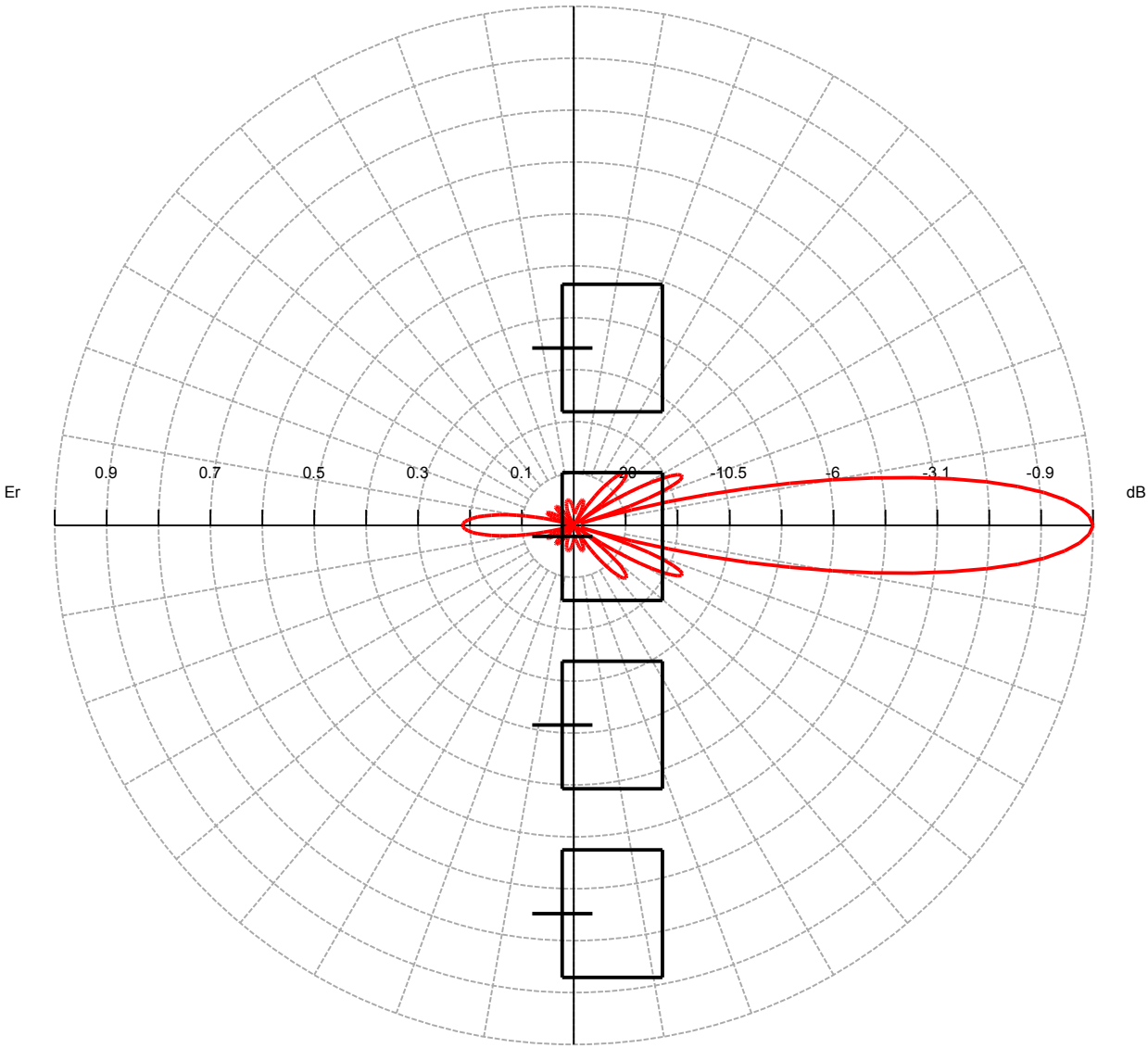


0.0° depres. (Total Antenna), Gain (dBd): 10.29 ERP T.Max(KW): 10.6999 ERP E.Max(KW): 10.6999

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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 10.29

ERP T.Max(KW): 10.6999    ERP E.Max(KW): 10.6999