

TX station: 4xBkk2-v-omni
Gain solid integration : disabled

Site Name: Labelitaly

General data of Antenna System

TX station	4xBkk2-v-omni
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-BKK_2V PANEL 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):	120.0
Mast cross section (T/Q/C)	Q
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	BKK_2V PANEL VHF WB
Band start(MHz)	174
Band stop(MHz)	225
diagrams Frequency(MHz)	200
Polariz (H,V,C,X)	V
Vertical dist (cm)	150
Height (cm)	87
Width (cm)	125
Thickness (cm)	40
Weight (Kg)	25
Maximum power (KW)	2
Gain (dBd)	7.5
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	24
R.C.Phase (°)	0

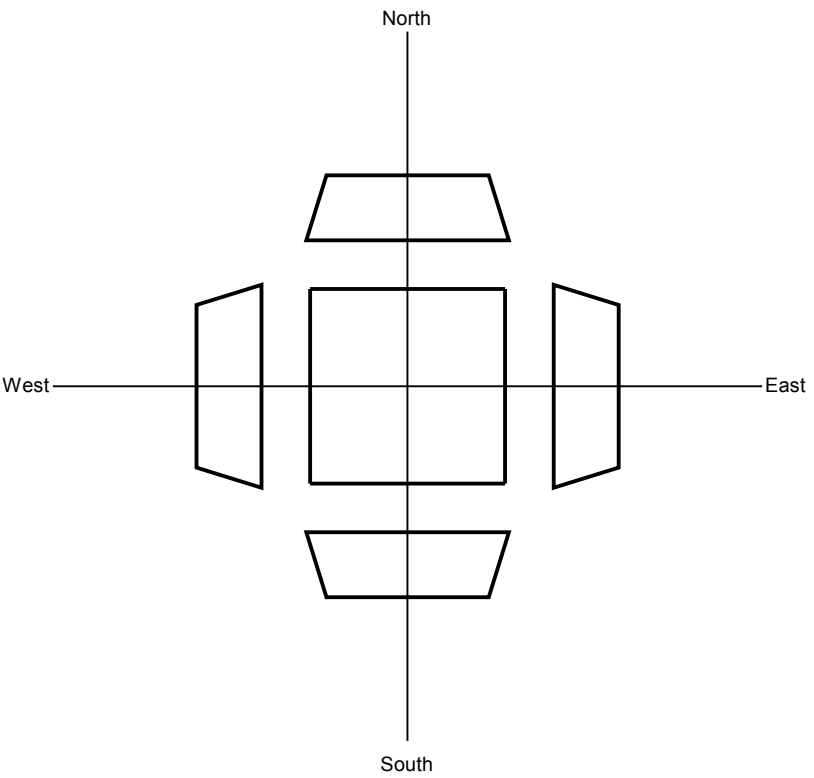
TX station: 4xBkk2-v-omni
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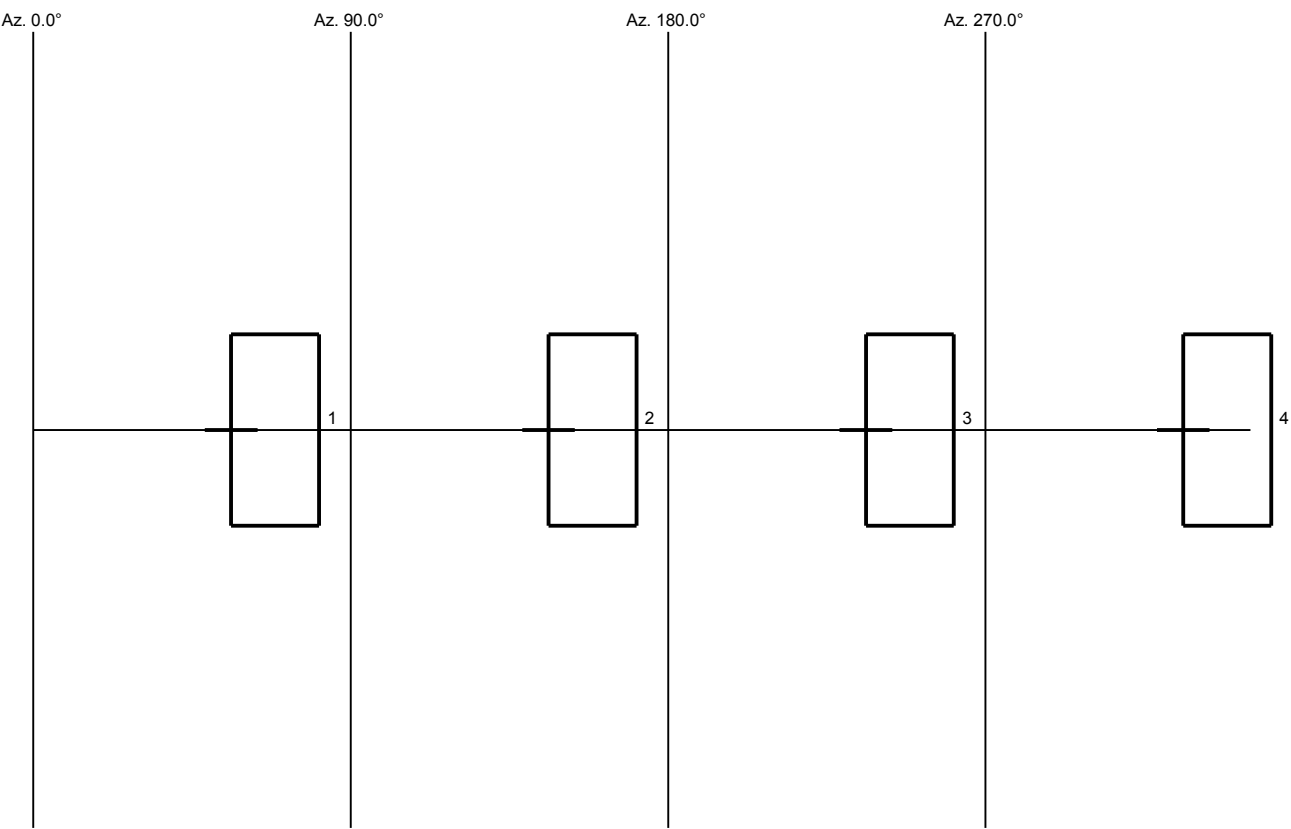
Geometr. and electrical data of Antenna System

	<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	0.00	90.0	0.0	1	1	0.0	0.0
2	25.000	0	90	0 +0.0	0.00	90.0	90.0	1	1	0.0	0.0
3	25.000	0	180	0 +0.0	0.00	90.0	180.0	1	1	0.0	0.0
4	25.000	0	270	0 +0.0	0.00	90.0	270.0	1	1	0.0	0.0

Plan of antenna system



Side of antenna system



Antennas arrays data

A. Antennas array azimuth (°/N)	0	90	180	270
B. Number of antennas	1	1	1	1
C. Nominal power supply (W)	250.00	250.00	250.00	250.00
D. Losses (addit. + cables) (dB)	0.0	0.0	0.0	0.0
E. Effective power supply (W)	250.00	250.00	250.00	250.00
F. Theor. maximum gain (dBd)	7.50	7.50	7.50	7.50
G. Distribution losses (dB)	0.00	0.00	0.00	0.00
H. Nominal max gain [F - G] (dBd)	7.50	7.50	7.50	7.50
I. Compensation losses (dB)	0.00	0.00	0.00	0.00
J. Effec. max gain [H - I] (dBd)	7.50	7.50	7.50	7.50
K. Effec. max gain (times)	5.62	5.62	5.62	5.62
L. Effec. max power [E * K] (KW)	1.4059	1.4059	1.4059	1.4059
M. Max power depr. angle (°)	0.0	0.0	0.0	0.0
N. Max power az. angle (°)	0	90	180	270

Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	0.6	90	0.6	180	0.6	270	0.6
10	0.4	100	0.4	190	0.4	280	0.4
20	-0.4	110	-0.4	200	-0.4	290	-0.4
30	-0.4	120	-0.4	210	-0.4	300	-0.4
40	0.2	130	0.2	220	0.2	310	0.2
50	0.2	140	0.2	230	0.2	320	0.2
60	-0.4	150	-0.4	240	-0.4	330	-0.4
70	-0.4	160	-0.4	250	-0.4	340	-0.4
80	0.4	170	0.4	260	0.4	350	0.4

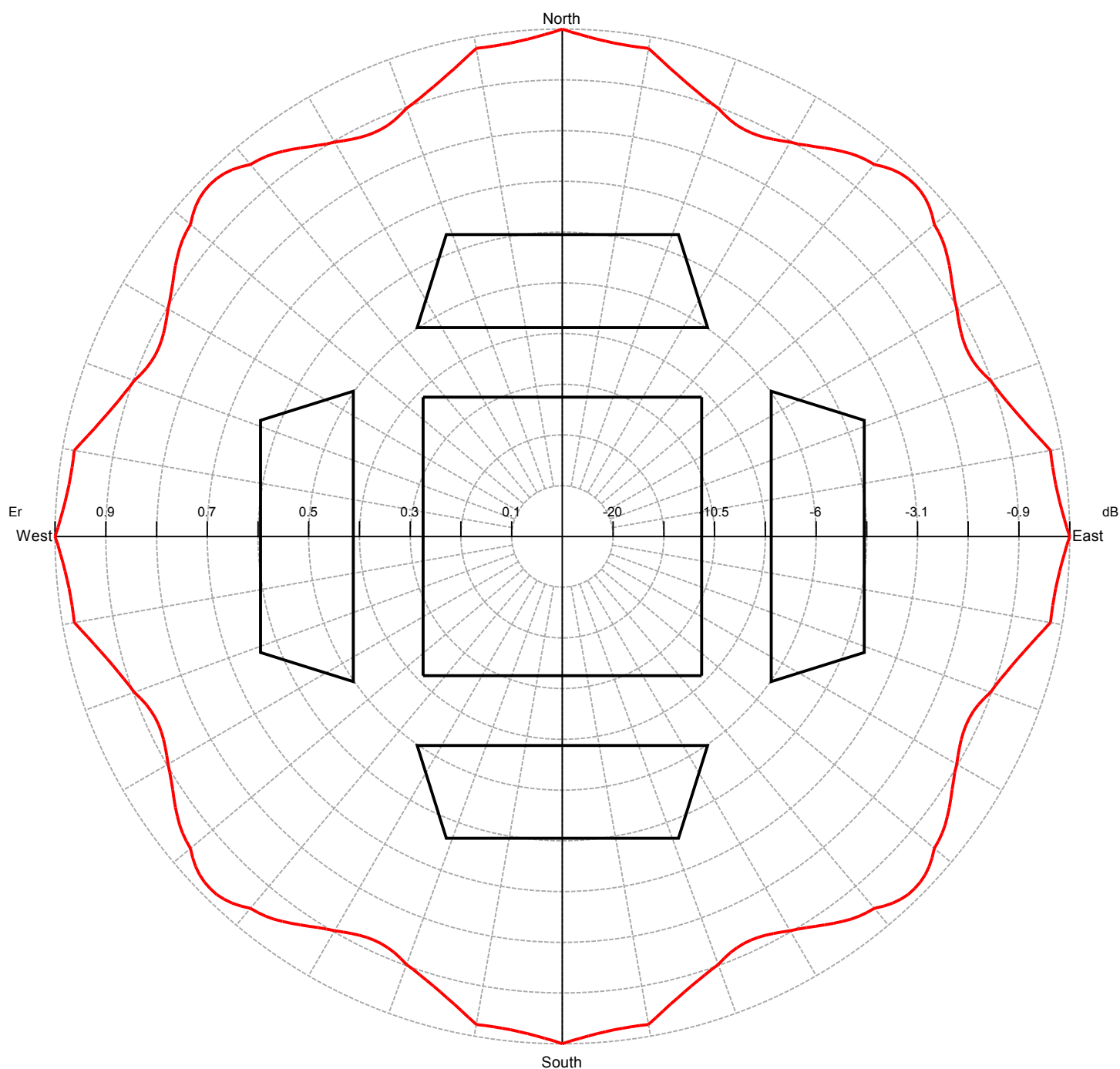
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Horizontal diagram at 0.0° depres. (Total Antenna)



0.0° depres. (Total Antenna), Gain (dBd): 0.58

ERP T.Max(KW): 1.1424 ERP E.Max(KW): 1.1424

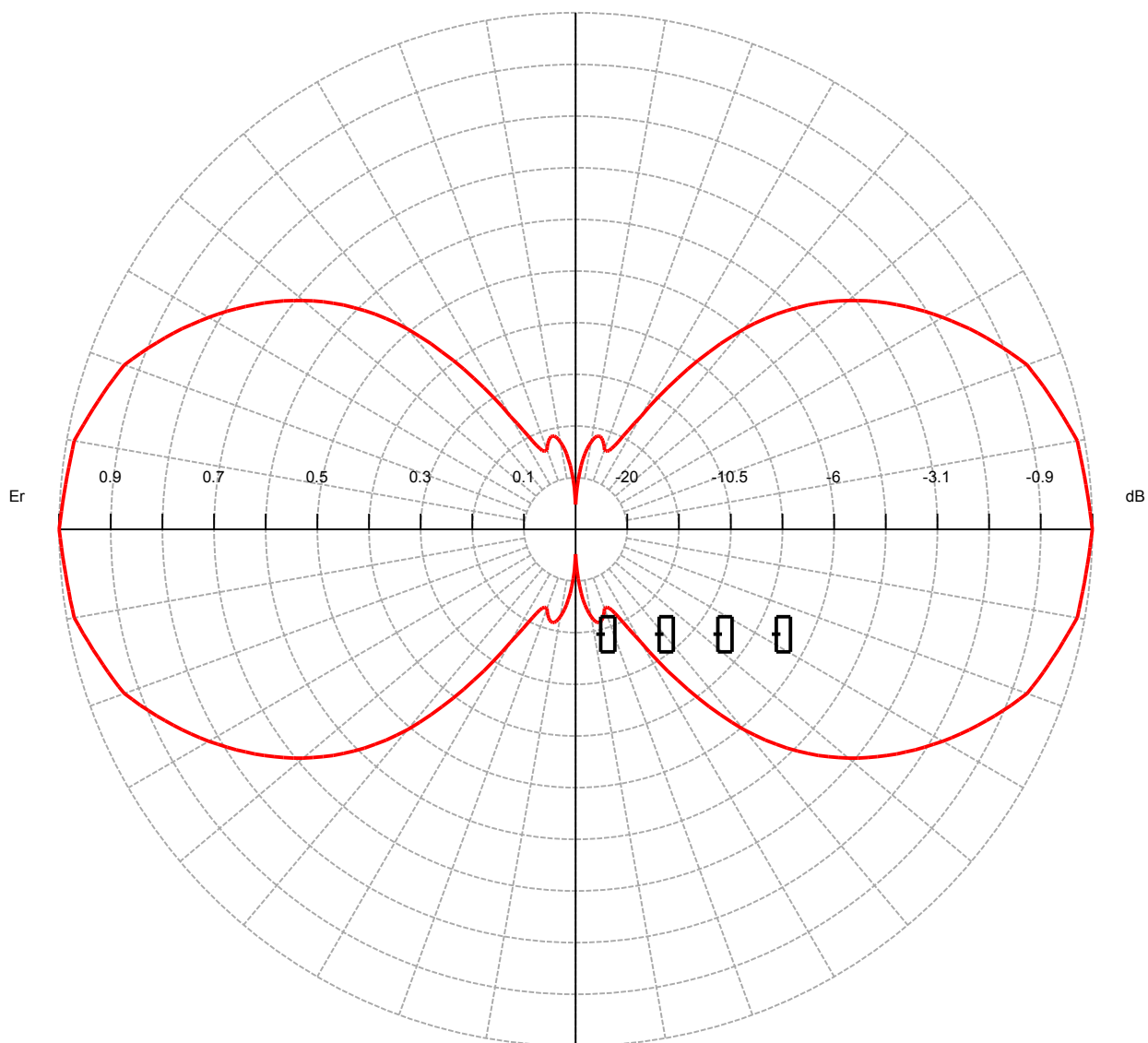
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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 0.58

ERP T.Max(KW): 1.1424 ERP E.Max(KW): 1.1424