

TX station: 8xAkk2

Gain solid integration : enabled

Site Name: Labelitaly

General data of Antenna System

TX station	8xAkk2
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-AKK_2V PANEL W.B. FM vertical pol.
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	AKK_2V PANEL W.B. F
Band start(MHz)	88
Band stop(MHz)	105
diagrams Frequency(MHz)	98
Polariz (H,V,C,X)	V
Vertical dist (cm)	310
Height (cm)	174
Width (cm)	248
Thickness (cm)	80
Weight (Kg)	45
Maximum power (KW)	5
Gain (dBd)	8.1
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	0
R.C.Phase (°)	0

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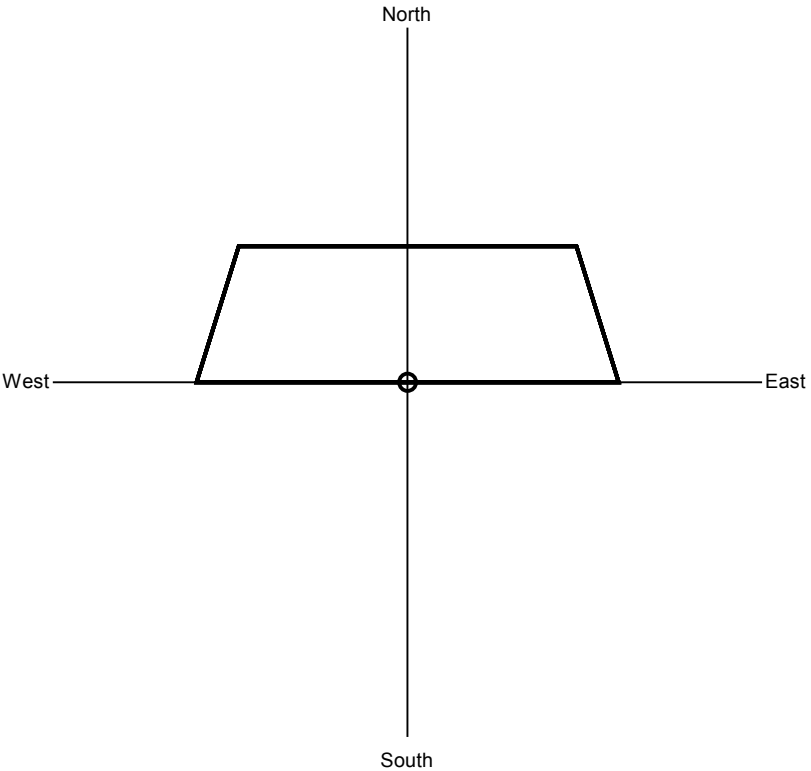
Geometr. and electrical data of Antenna System

	<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	12.500	0	0	0 +0.0	9.80	0.0	0.0	1	1	0.0	0.0
2	12.500	0	0	0 +0.0	7.00	0.0	0.0	1	1	0.0	0.0
3	12.500	0	0	0 +0.0	4.20	0.0	0.0	1	1	0.0	0.0
4	12.500	0	0	0 +0.0	1.40	0.0	0.0	1	1	0.0	0.0
5	12.500	0	0	0 +0.0	-1.40	0.0	0.0	1	1	0.0	0.0
6	12.500	0	0	0 +0.0	-4.20	0.0	0.0	1	1	0.0	0.0
7	12.500	0	0	0 +0.0	-7.00	0.0	0.0	1	1	0.0	0.0
8	12.500	0	0	0 +0.0	-9.80	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	8
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)	17.03
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	17.03
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	17.03
K. Effec. max gain (times)	50.50
L. Effec. max power [E * K] (KW)	50.4997
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	358

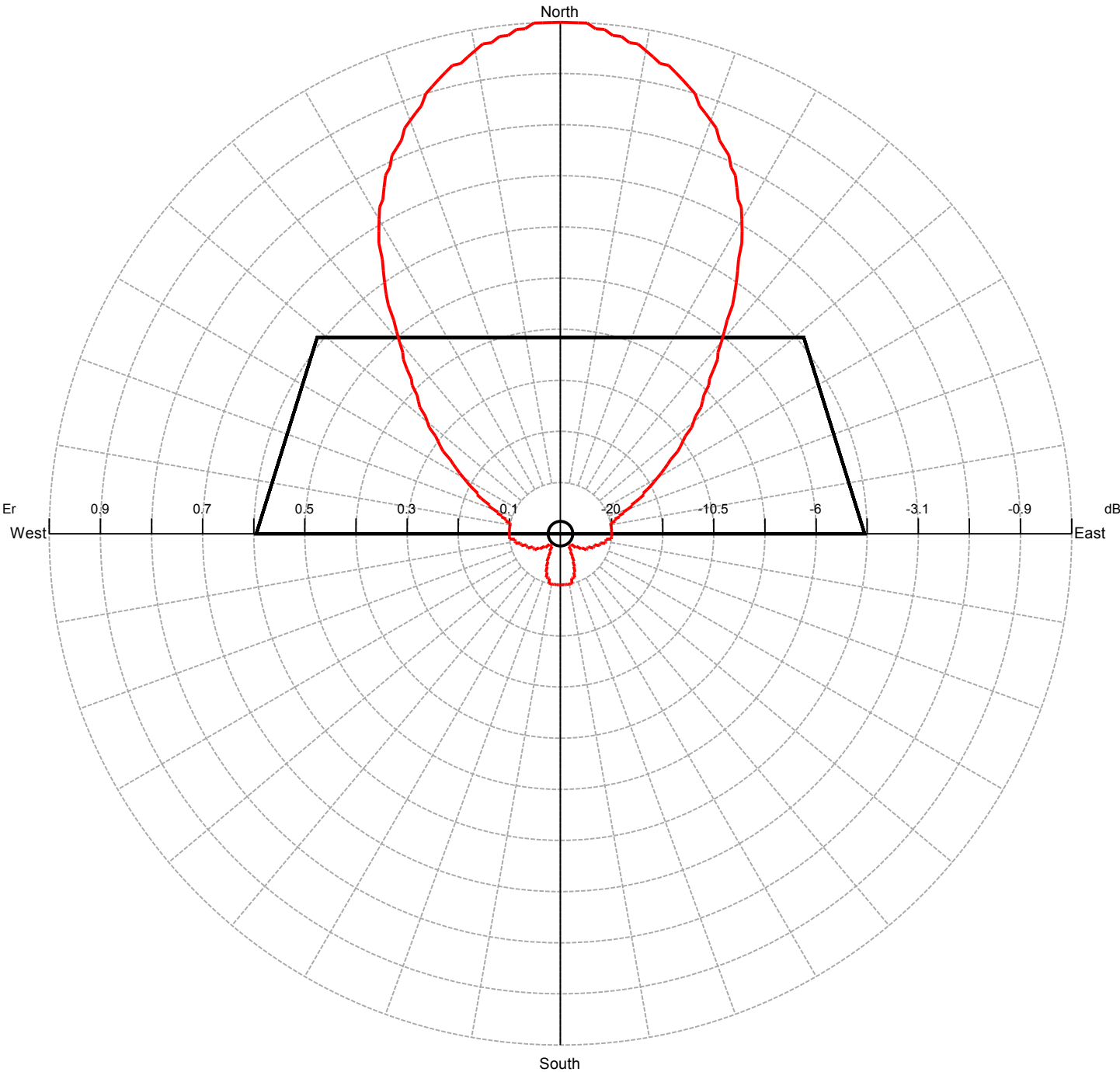
Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	17.0	90	-3.0	180	-3.0	270	-3.0
10	16.7	100	-3.0	190	-3.0	280	-3.0
20	15.7	110	-3.0	200	-3.0	290	0.0
30	14.1	120	-3.0	210	-3.0	300	3.9
40	10.8	130	-3.0	220	-3.0	310	7.7
50	7.7	140	-3.0	230	-3.0	320	10.8
60	3.9	150	-3.0	240	-3.0	330	14.1
70	0.0	160	-3.0	250	-3.0	340	15.7
80	-3.0	170	-3.0	260	-3.0	350	16.7

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Horizontal diagram at 0.0° depres. (Total Antenna)

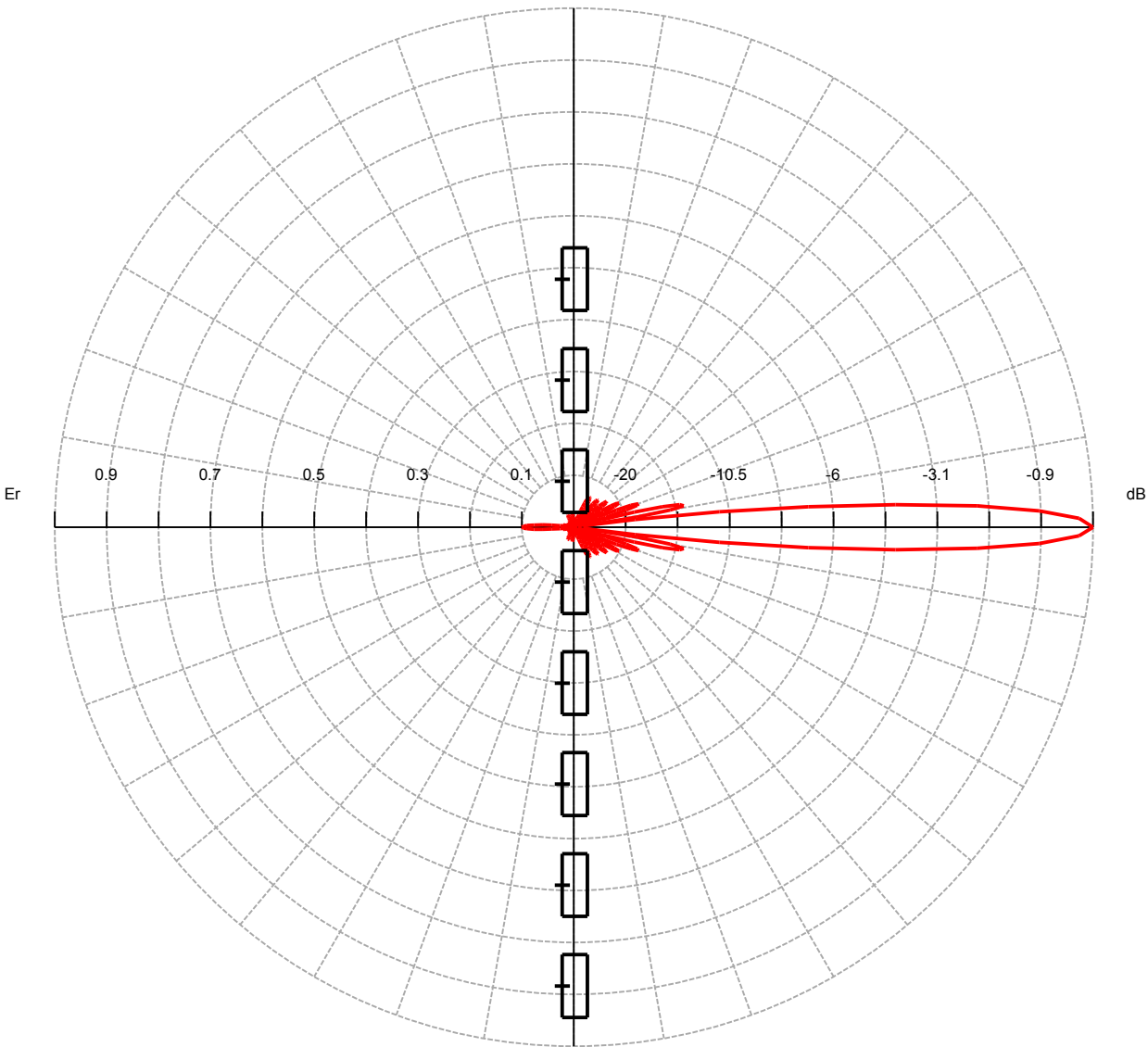


0.0° depres. (Total Antenna), Gain (dBd): 17.03 ERP T.Max(KW): 50.4997 ERP E.Max(KW): 50.4997

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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 17.03

ERP T.Max(KW): 50.4997 ERP E.Max(KW): 50.4997