

TX station: 8xAks1

Gain solid integration : disabled

Site Name: Labelitaly

General data of Antenna System

TX station	8xAks1
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-AKS_1 DIPOLE FM WB DEMOUNT.
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	AKS_1 DIPOLE FM WB
Band start(MHz)	88
Band stop(MHz)	108
diagrams Frequency(MHz)	98
Polariz (H,V,C,X)	V
Vertical dist (cm)	260
Height (cm)	140
Width (cm)	6
Thickness (cm)	90
Weight (Kg)	4.5
Maximum power (KW)	2
Gain (dBd)	2.16
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	20
R.C.Phase (°)	0

TX station: 8xAks1
Frequency: 98.00 MHz
Gain solid integration : disabled

Site Name: Labelitaly

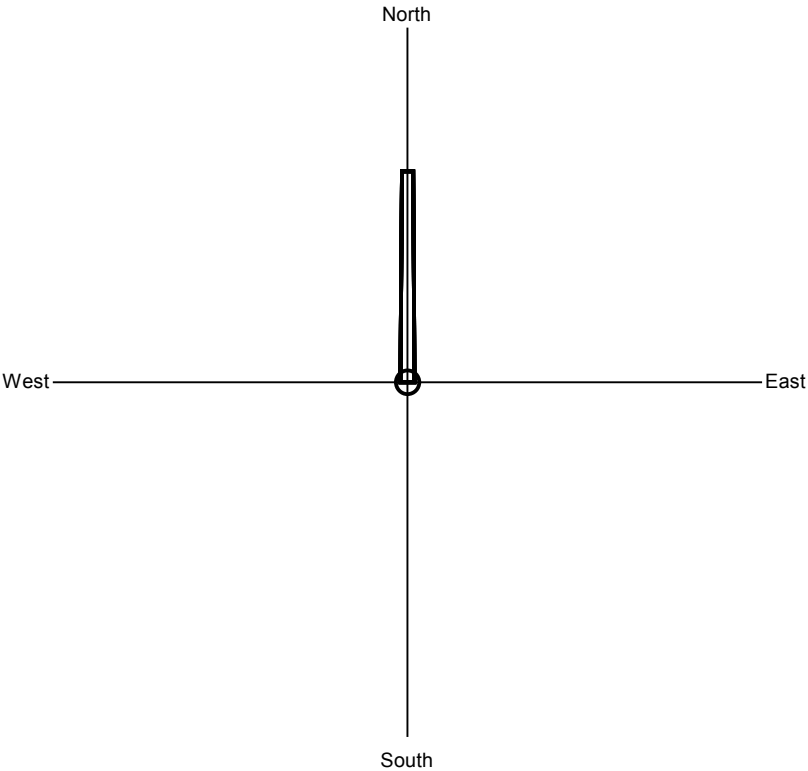
Geometr. and electrical data of Antenna System

	<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	12.500	0	0	0 +0.0	9.10	0.0	0.0	1	1	0.0	0.0
2	12.500	0	0	0 +0.0	6.50	0.0	0.0	1	1	0.0	0.0
3	12.500	0	0	0 +0.0	3.90	0.0	0.0	1	1	0.0	0.0
4	12.500	0	0	0 +0.0	1.30	0.0	0.0	1	1	0.0	0.0
5	12.500	0	0	0 +0.0	-1.30	0.0	0.0	1	1	0.0	0.0
6	12.500	0	0	0 +0.0	-3.90	0.0	0.0	1	1	0.0	0.0
7	12.500	0	0	0 +0.0	-6.50	0.0	0.0	1	1	0.0	0.0
8	12.500	0	0	0 +0.0	-9.10	0.0	0.0	1	1	0.0	0.0

TX station: 8xAks1
Frequency: 98.00 MHz
Gain solid integration : disabled

Site Name: Labelitaly

Plan of antenna system



Side of antenna system



TX station: 8xAks1
Frequency: 98.00 MHz
Gain solid integration : disabled

Site Name: Labelitaly

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)	11.19
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	11.19
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	11.19
K. Effec. max gain (times)	13.15
L. Effec. max power [E * K] (KW)	13.1550
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	340

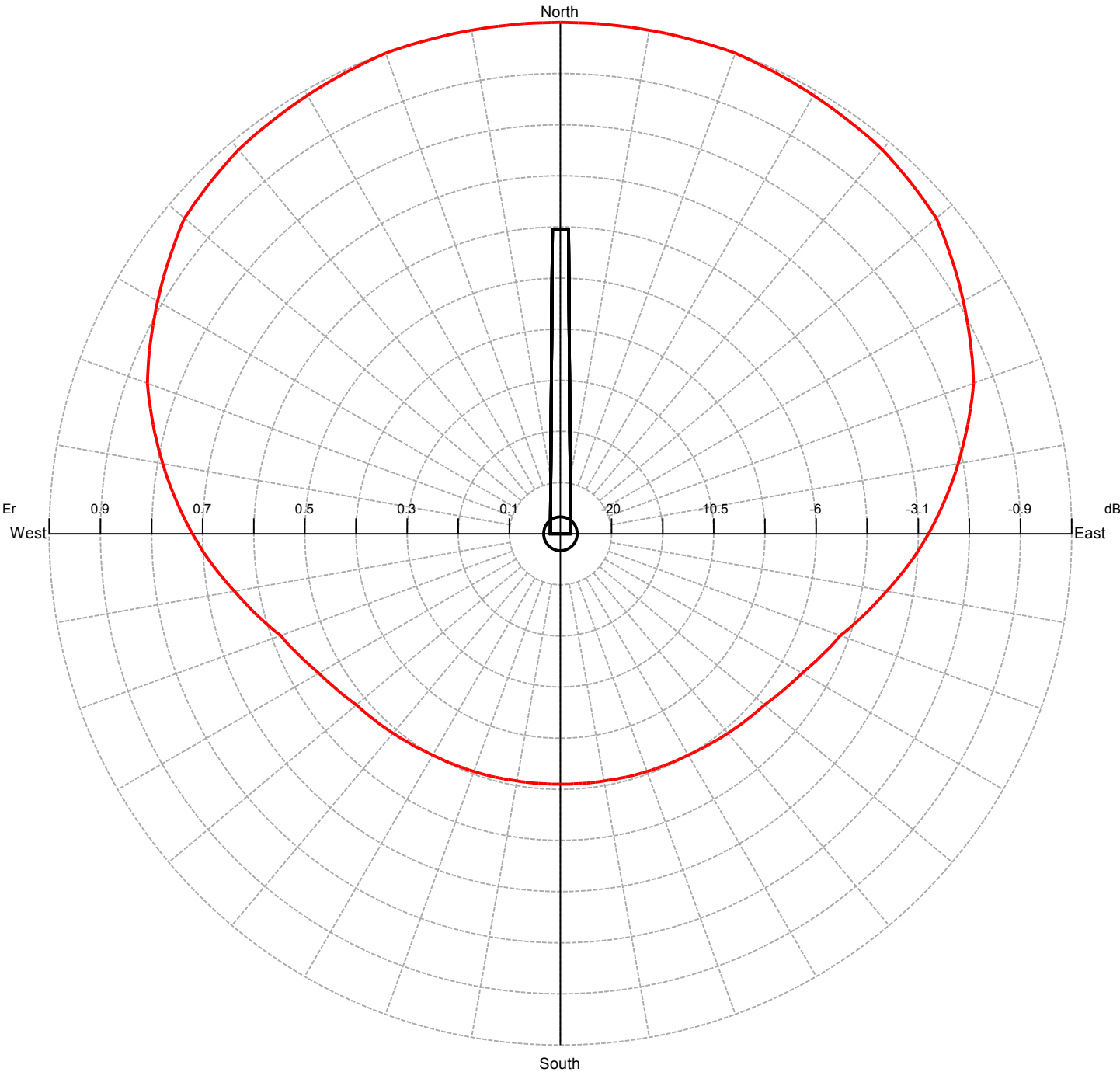
Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	11.2	90	8.3	180	5.0	270	8.3
10	11.2	100	7.4	190	5.0	280	9.1
20	11.2	110	6.5	200	5.1	290	9.9
30	11.1	120	5.9	210	5.2	300	10.4
40	11.0	130	5.5	220	5.3	310	10.8
50	10.8	140	5.3	230	5.5	320	11.0
60	10.4	150	5.2	240	5.9	330	11.1
70	9.9	160	5.1	250	6.5	340	11.2
80	9.1	170	5.0	260	7.4	350	11.2

TX station: 8xAks1
Frequency: 98.00 MHz
Gain solid integration : disabled

Site Name: Labelitaly

Horizontal diagram at 0.0° depres. (Total Antenna)

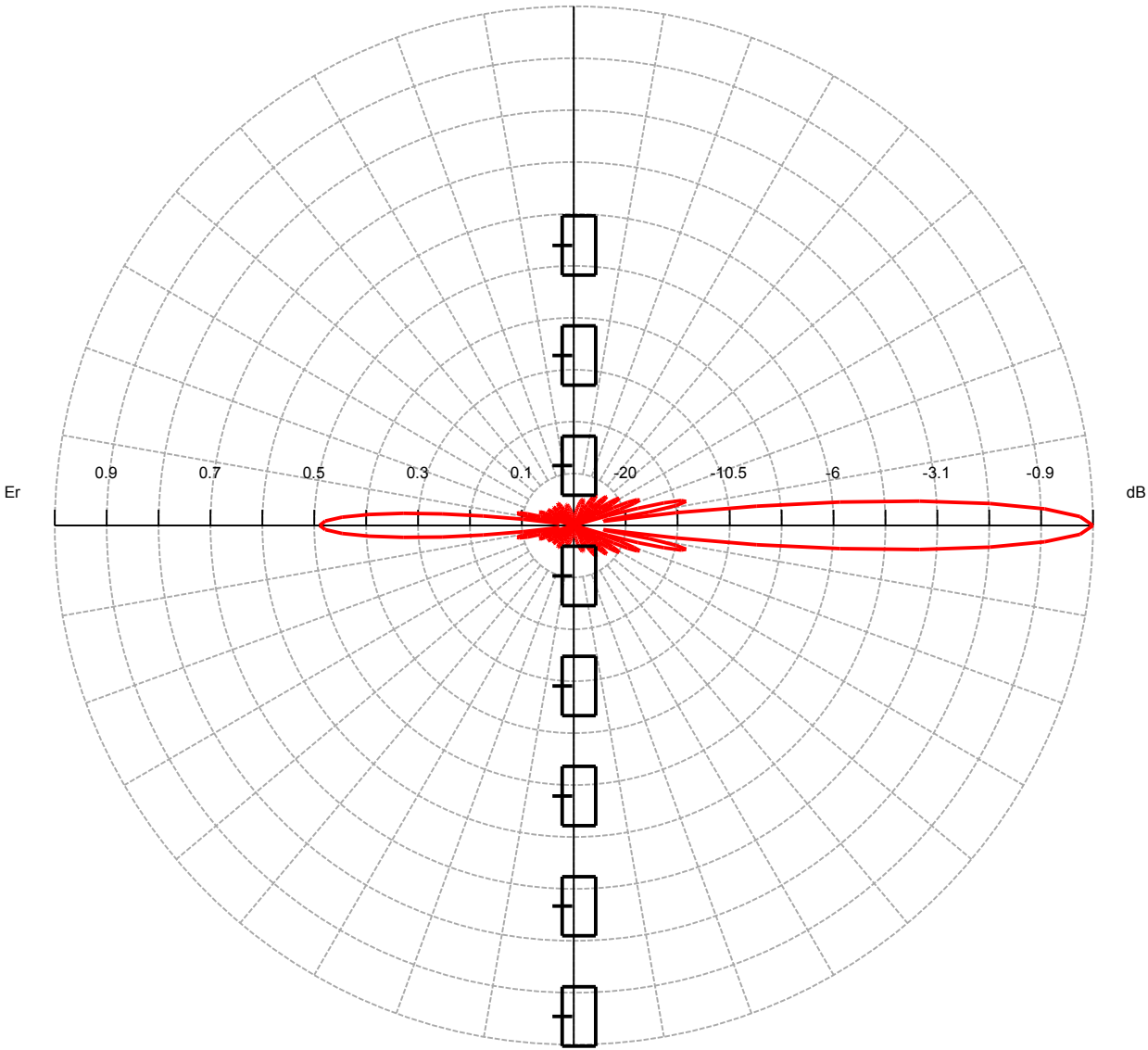


0.0° depres. (Total Antenna), Gain (dBd): 11.19 ERP T.Max(KW): 13.155 ERP E.Max(KW): 13.155

TX station: 8xAks1
Frequency: 98.00 MHz
Gain solid integration : disabled

Site Name: Labelitaly

Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 11.19

ERP T.Max(KW): 13.155 ERP E.Max(KW): 13.155