General data of antenna system

TX station	EXAMPLE
Site name	8 PANEL OMNI
Site longitude (+ddd°pp'ss")	
Site latitude (+dd°pp'ss")	
Ground level a.s.l. (m)	100
Antenna system height a.g.l. (m)	50.0
Transmitter power (Watt)	1000.0
Carrier wave frequency (MHz)	98.00
Antenna system central frequency (MHz)	98.00
Filename of antenna base diagrams type 1	LABEL_AKK2.ANT
Filename of antenna base diagrams type 2	
Antenna system polarization (H, V, C, X)	V
Transmitting cable attenuation (dB)	0.0
Additional attenuations (dB)	0.0
Base diagrams sectors (A = all, F = front)	A
Velocity factor of cables to antennas (0÷1)	0.88
Coordinate system (C = cartesian, P = polar)	P
Mast side/diameter (cm):	200.0
Mast cross section (Triangular, Square, Circular)	S
Mast rotation w.r.t. North (°)	0
System picture filename (*.bmp *.gif *.jpg)	

Information about antennas used in the system

	Antenna of type 1
Manufacturer	LABEL ITALY
Antenna model	AKK/2 - PANEL FM WB
Band start (MHz)	87.5
Band stop (MHz)	108
Diagrams frequency (MHz)	98
Polariz. (H, V, C, X)	V
Vertical dist. (cm)	280
Height (cm)	170
Width (cm)	250
Thickness (cm)	80
Weight (Kg)	45
Maximum power (KW)	5
Gain (dBd)	8.56
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	-20
R.C. phase (°)	0

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TX station: EXAMPLE Site name: 8 PANEL OMNI

Geometr. and electrical data of antenna system

	Power (%)	*Tilt (°)*	*Az. (°/N)*	*Phase (°)*		*V dist. (m)*	*Scr-D (cm)*	*Scr-Az (°/N)*	*Rot. (1÷4)*	*Type (1÷2)*	*L cables (cm)*	*Car. phase (°)*
1	12.500	0	0	0	+0.0	1.30	170.0	0.0	1	1	0.0	0.0
2	12.500	0	0	0	+0.0	-1.30	170.0	0.0	1	1	0.0	0.0
3	12.500	0	90	0	+0.0	1.30	170.0	90.0	1	1	0.0	0.0
4	12.500	0	90	0	+0.0	-1.30	170.0	90.0	1	1	0.0	0.0
5	12.500	0	180	0	+0.0	1.30	170.0	180.0	1	1	0.0	0.0
6	12.500	0	180	0	+0.0	-1.30	170.0	180.0	1	1	0.0	0.0
7	12.500	0	270	0	+0.0	1.30	170.0	270.0	1	1	0.0	0.0
8	12.500	0	270	0	+0.0	-1.30	170.0	270.0	1	1	0.0	0.0

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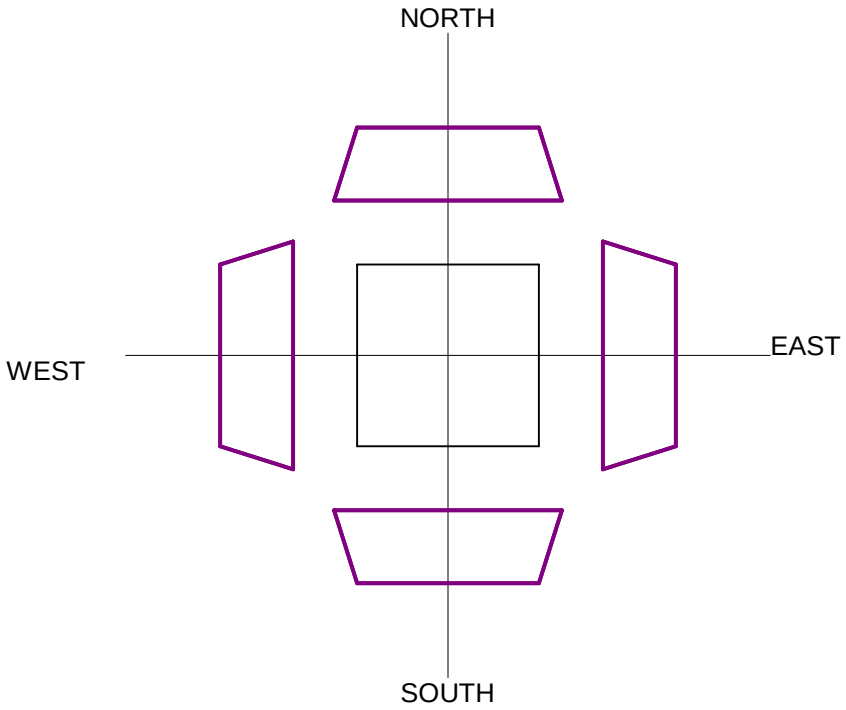
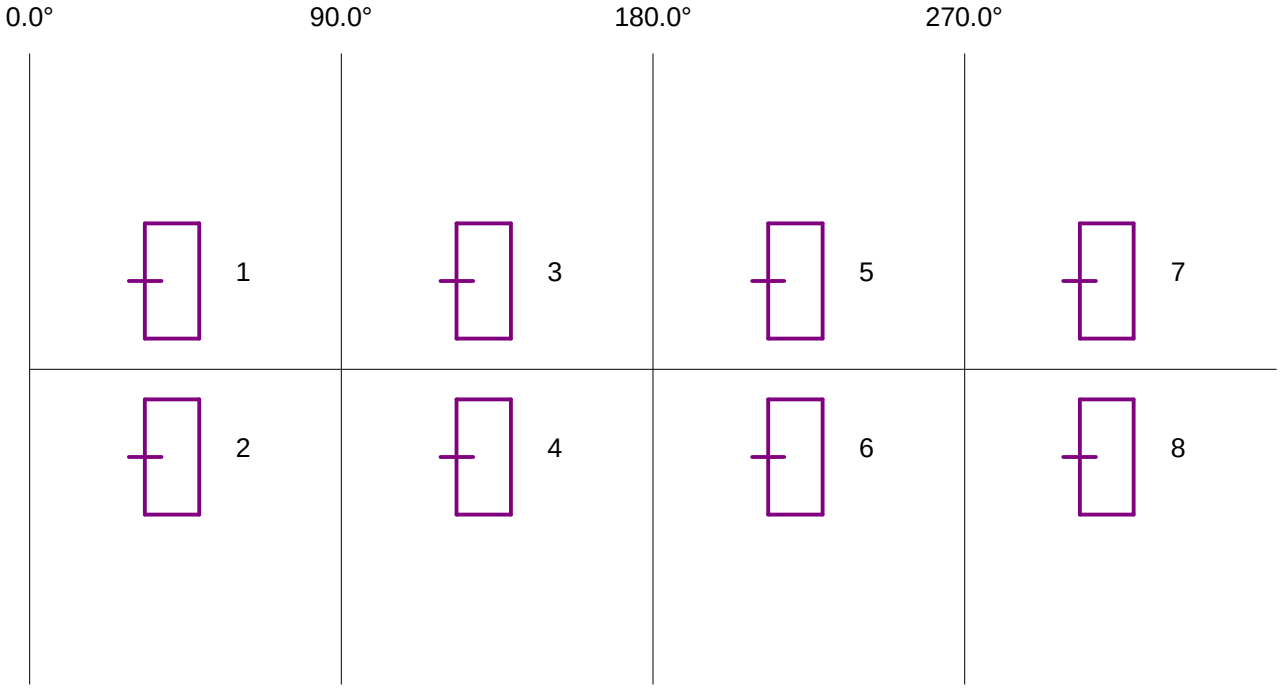
TX station: EXAMPLE

Site name: 8 PANEL OMNI

Plan of antenna system



Side of antenna system



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TX station: EXAMPLE

Site name: 8 PANEL OMNI

Frequency: 98.00 MHz

Antennas arrays data

A. Antennas array azimuth (°/N)	0	90	180	270
B. Number of antennas	2	2	2	2
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)	11.57	11.57	11.57	11.57
G. Distribution losses (dB)	0.00	0.00	0.00	0.00
H. Nominal max gain [F - G] (dBd)	11.57	11.57	11.57	11.57
I. Compensation losses (dB)	0.00	0.00	0.00	0.00
J. Effec. max gain [H - I] (dBd)	11.57	11.57	11.57	11.57
K. Effec. max gain (times)	14.36	14.36	14.36	14.36
L. Effec. max power [E * K] (KW)	3.5890	3.5890	3.5890	3.5890
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	4.5	90	4.5	180	4.5	270	4.5
10	4.3	100	4.3	190	4.3	280	4.3
20	3.8	110	3.8	200	3.8	290	3.8
30	3.6	120	3.6	210	3.6	300	3.6
40	4.0	130	4.0	220	4.0	310	4.0
50	4.0	140	4.0	230	4.0	320	4.0
60	3.6	150	3.6	240	3.6	330	3.6
70	3.8	160	3.8	250	3.8	340	3.8
80	4.3	170	4.3	260	4.3	350	4.3

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TX station: EXAMPLE

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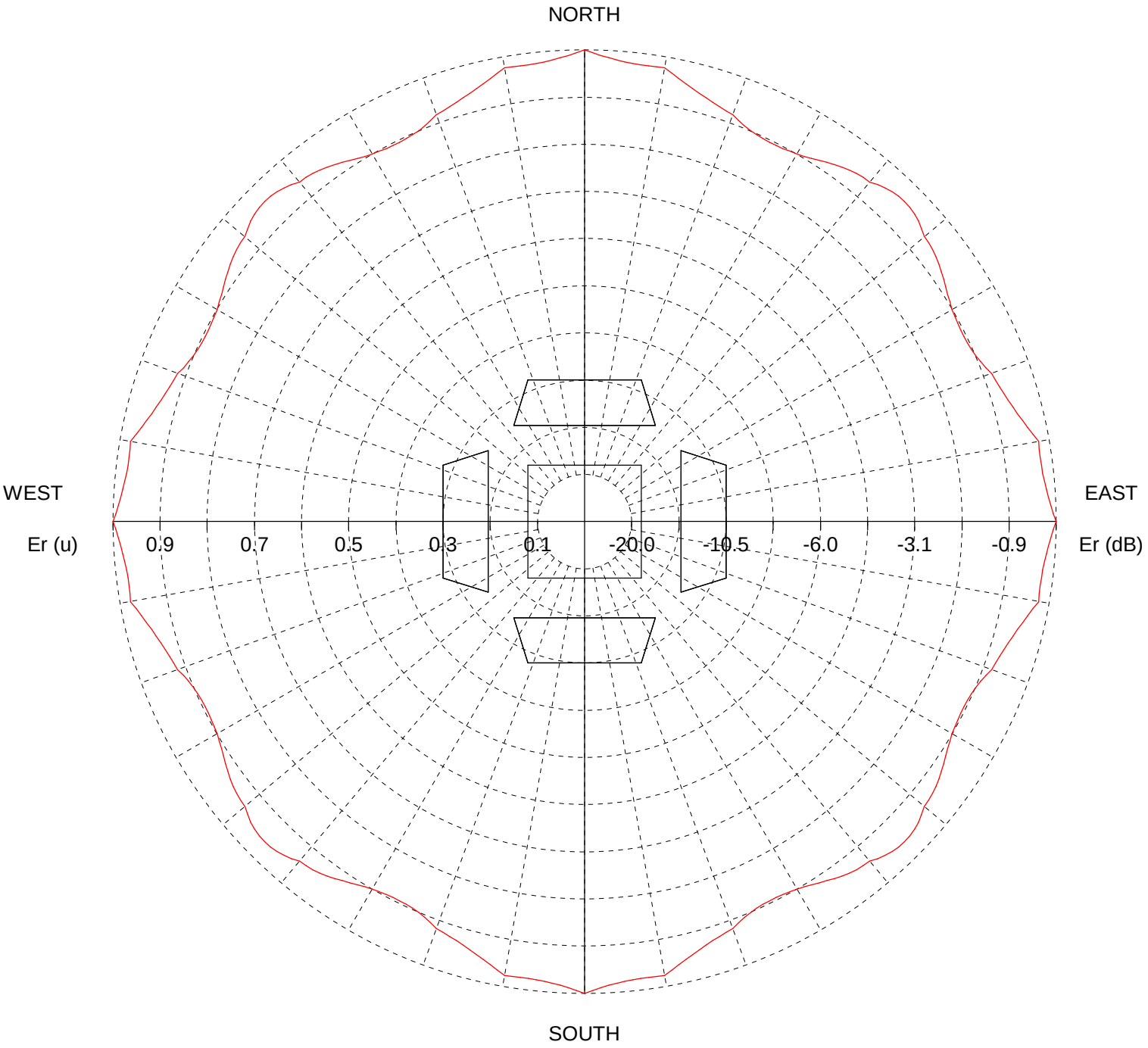
Frequency: 98.00 MHz

Horizontal diagram



0.0° depres. (Total antenna), Gain (dBd): 4.51 ERP T.max (KW): 2.825 ERP E.max (KW): 2.825

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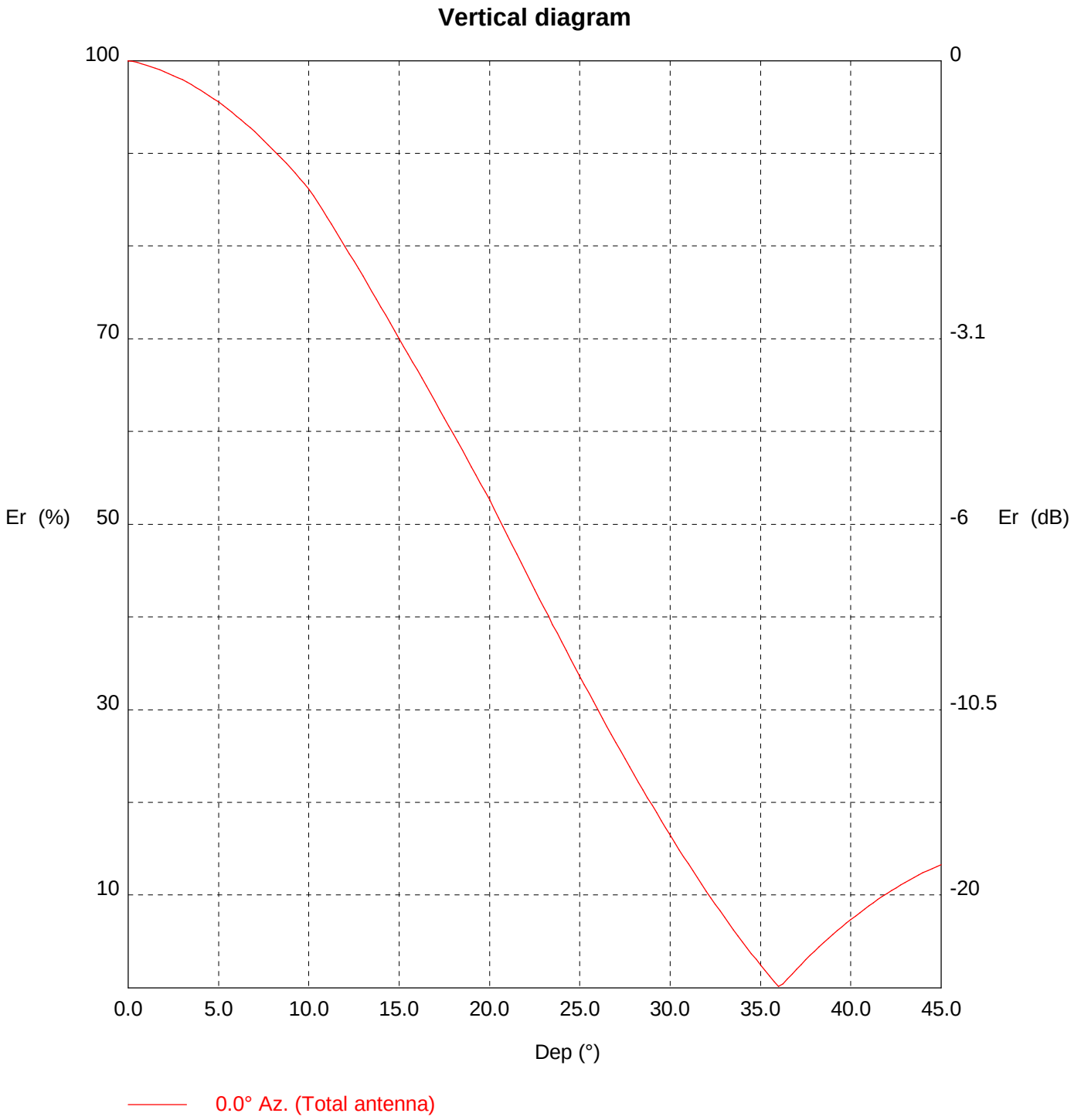
TX station: EXAMPLE

Site name: 8 PANEL OMNI

Frequency: 98.00 MHz



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