

TX station: 12xBkk2-h-omni  
Gain solid integration : enabled

Site Name: Labelitaly

### General data of Antenna System

TX station	12xBkk2-h-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)	H
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):	100.0
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

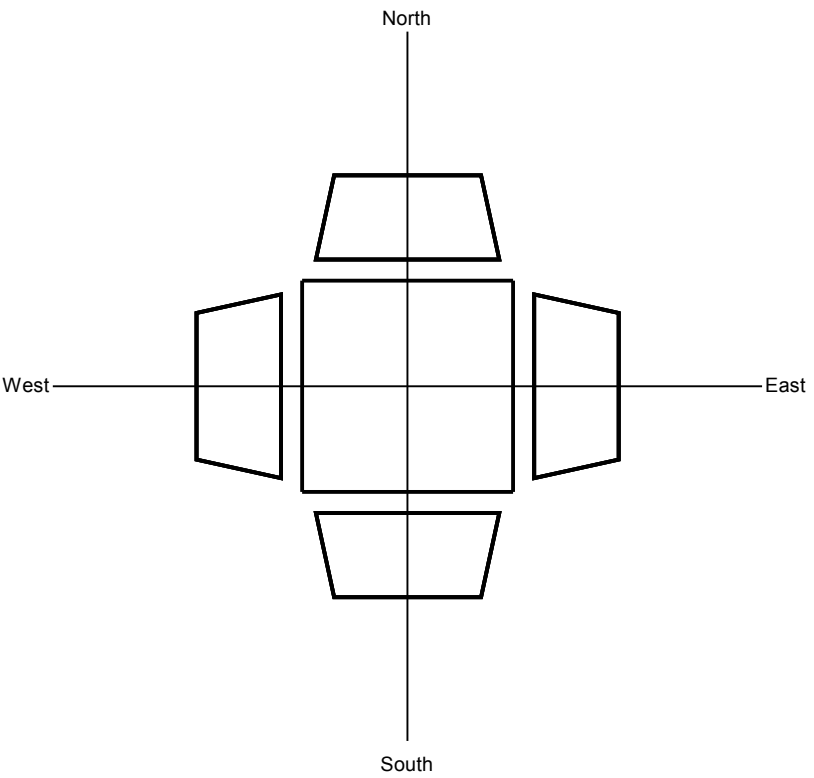
TX station: 12xBkk2-h-omni  
Frequency: 200.00 MHz  
Gain solid integration : enabled

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Geometr. and electrical data of Antenna System

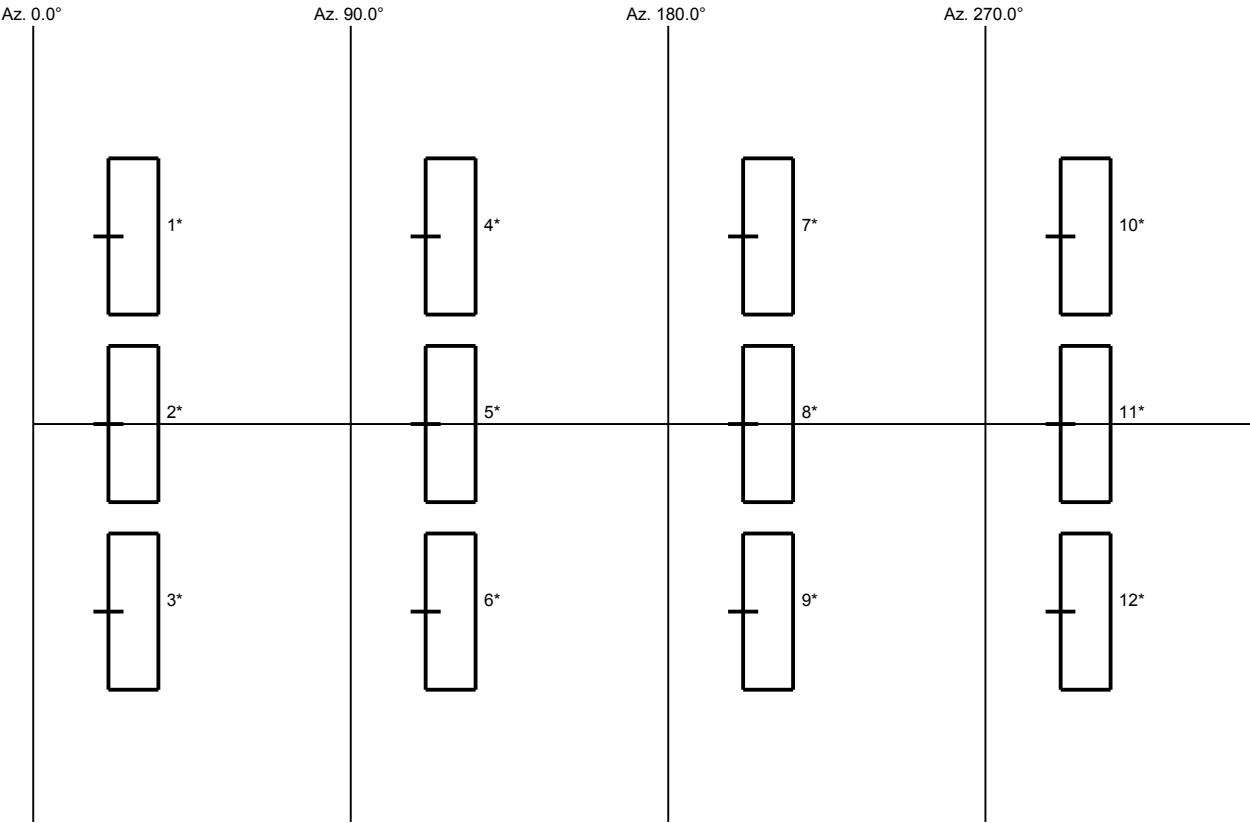
	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</i> (°/N)	<i>Phase</i> (°)	<i>V dist.</i> (m)	<i>Scr-d</i> (cm)	<i>Scr-Az</i> (°/N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)
1	8.333	0	0	0 +0.0	1.50	60.0	0.0	2	1	0.0	0.0
2	8.333	0	0	0 +0.0	0.00	60.0	0.0	2	1	0.0	0.0
3	8.333	0	0	0 +0.0	-1.50	60.0	0.0	2	1	0.0	0.0
4	8.333	0	90	0 +0.0	1.50	60.0	90.0	2	1	0.0	0.0
5	8.333	0	90	0 +0.0	0.00	60.0	90.0	2	1	0.0	0.0
6	8.333	0	90	0 +0.0	-1.50	60.0	90.0	2	1	0.0	0.0
7	8.333	0	180	0 +0.0	1.50	60.0	180.0	2	1	0.0	0.0
8	8.333	0	180	0 +0.0	0.00	60.0	180.0	2	1	0.0	0.0
9	8.333	0	180	0 +0.0	-1.50	60.0	180.0	2	1	0.0	0.0
10	8.333	0	270	0 +0.0	1.50	60.0	270.0	2	1	0.0	0.0
11	8.333	0	270	0 +0.0	0.00	60.0	270.0	2	1	0.0	0.0
12	8.333	0	270	0 +0.0	-1.50	60.0	270.0	2	1	0.0	0.0

Plan of antenna system



Side of antenna system

\* = rotated antenna



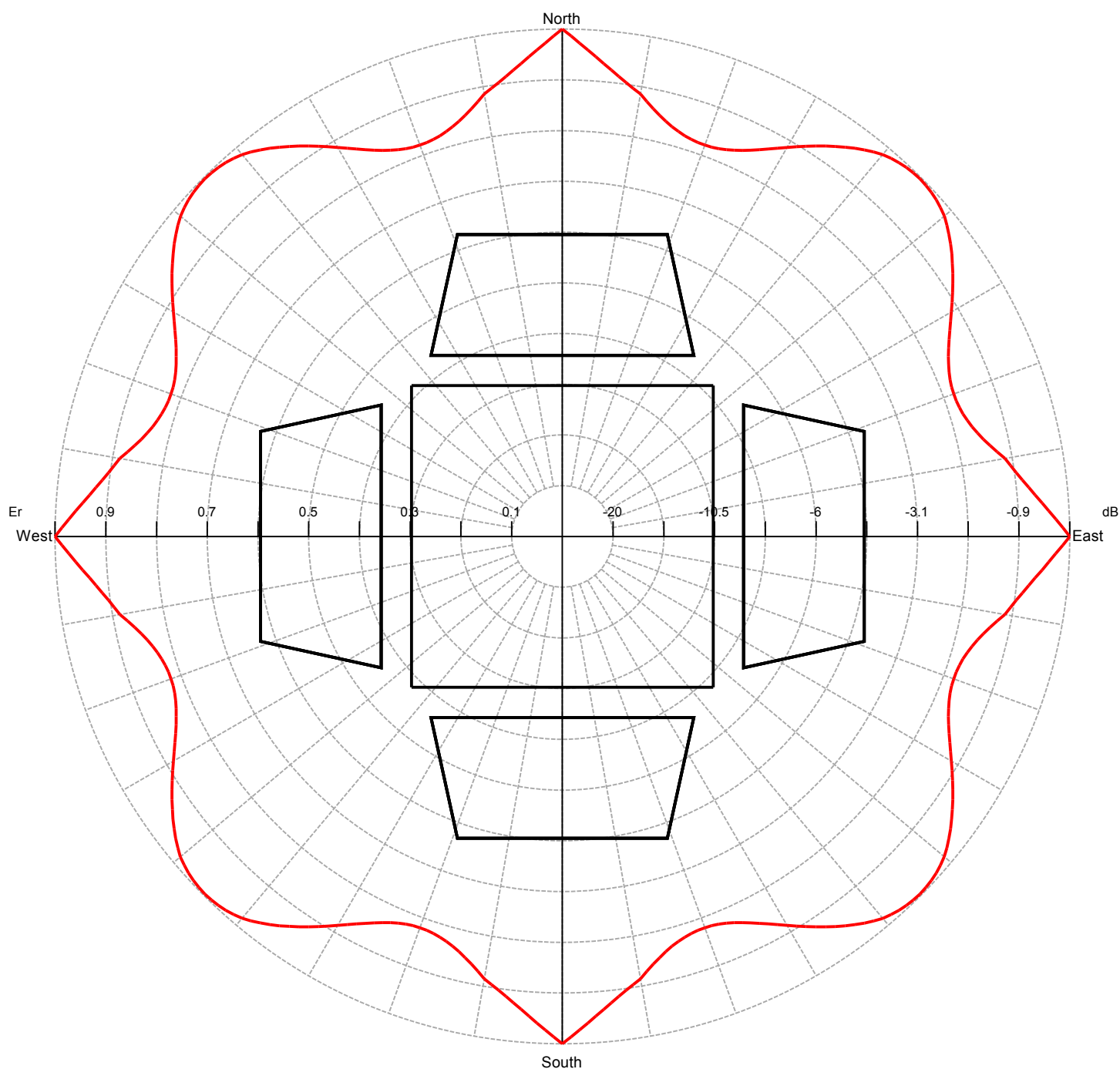
Antennas arrays data

A. Antennas array azimuth (°/N)	0	90	180	270
B. Number of antennas	3	3	3	3
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)	12.55	12.55	12.55	12.55
G. Distribution losses (dB)	0.00	0.00	0.00	0.00
H. Nominal max gain [F - G] (dBd)	12.55	12.55	12.55	12.55
I. Compensation losses (dB)	0.00	0.00	0.00	0.00
J. Effec. max gain [H - I] (dBd)	12.55	12.55	12.55	12.55
K. Effec. max gain (times)	17.98	17.98	17.98	17.98
L. Effec. max power [E * K] (KW)	4.4961	4.4961	4.4961	4.4961
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	6.5	90	6.5	180	6.5	270	6.5
10	5.5	100	5.5	190	5.5	280	5.5
20	4.8	110	4.8	200	4.8	290	4.8
30	5.5	120	5.5	210	5.5	300	5.5
40	6.4	130	6.4	220	6.4	310	6.4
50	6.4	140	6.4	230	6.4	320	6.4
60	5.5	150	5.5	240	5.5	330	5.5
70	4.8	160	4.8	250	4.8	340	4.8
80	5.5	170	5.5	260	5.5	350	5.5

**Horizontal diagram at 0.0° depres. (Total Antenna)**



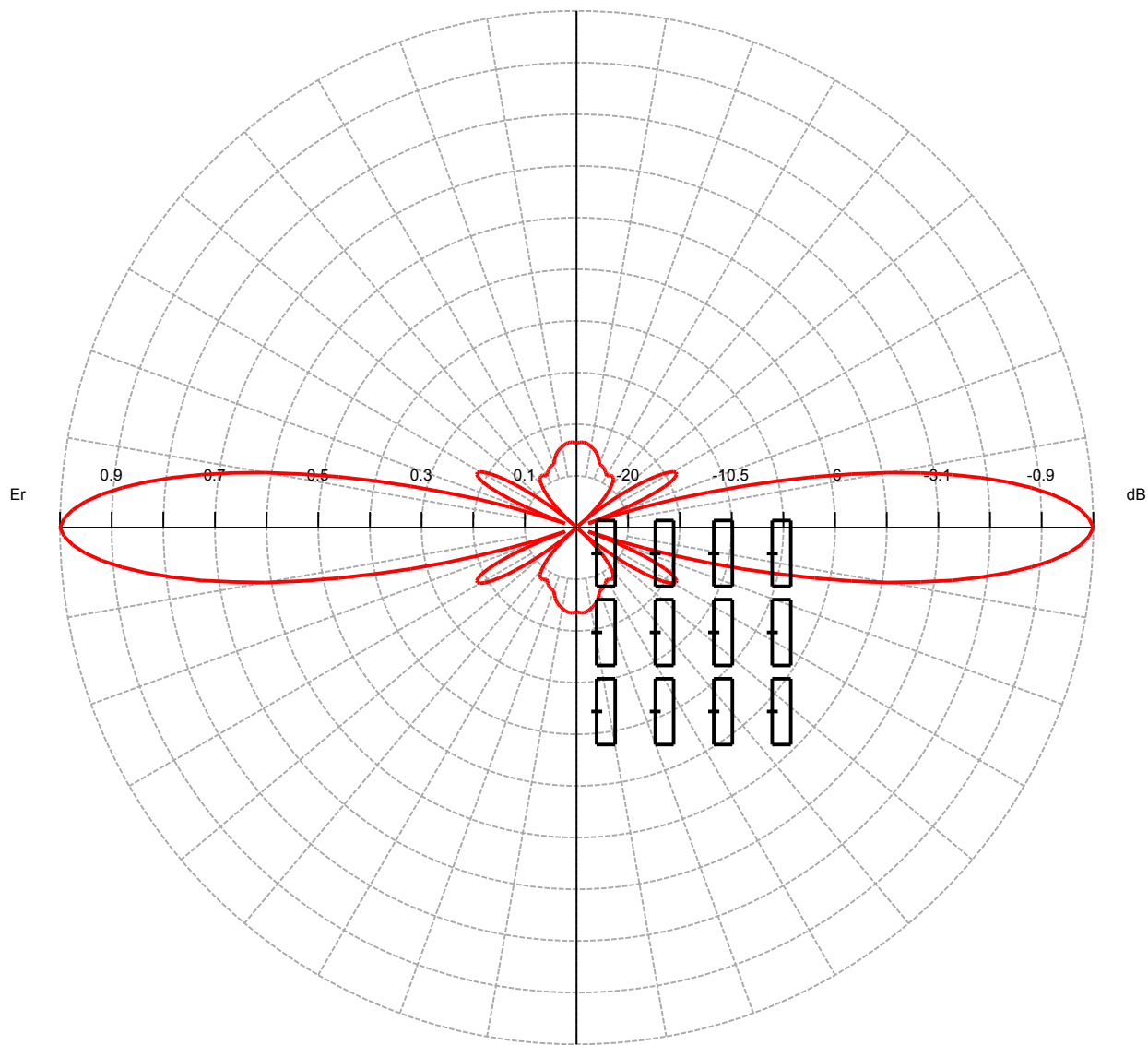
-0.0° depres. (Total Antenna), Gain (dBd): 6.54

ERP T.Max(KW): 4.506      ERP E.Max(KW): 4.506

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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 6.54

ERP T.Max(KW): 4.506    ERP E.Max(KW): 4.506