

TX station: 6xBkk2-h-3dir  
Gain solid integration : disabled

Site Name: Labelitaly

### General data of Antenna System

TX station	6xBkk2-h-3dir
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_2H 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_2H PANEL VHF WB
Band start(MHz)	174
Band stop(MHz)	225
diagrams Frequency(MHz)	200
Polariz (H,V,C,X)	H
Vertical dist (cm)	150
Height (cm)	125
Width (cm)	87
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

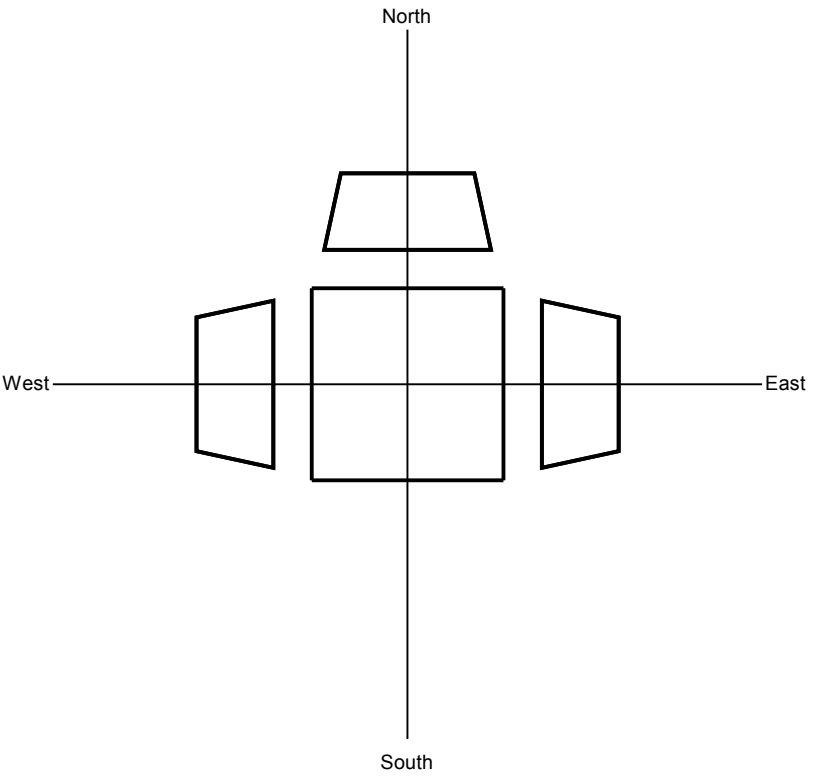
TX station: 6xBkk2-h-3dir  
Frequency: 200.00 MHz  
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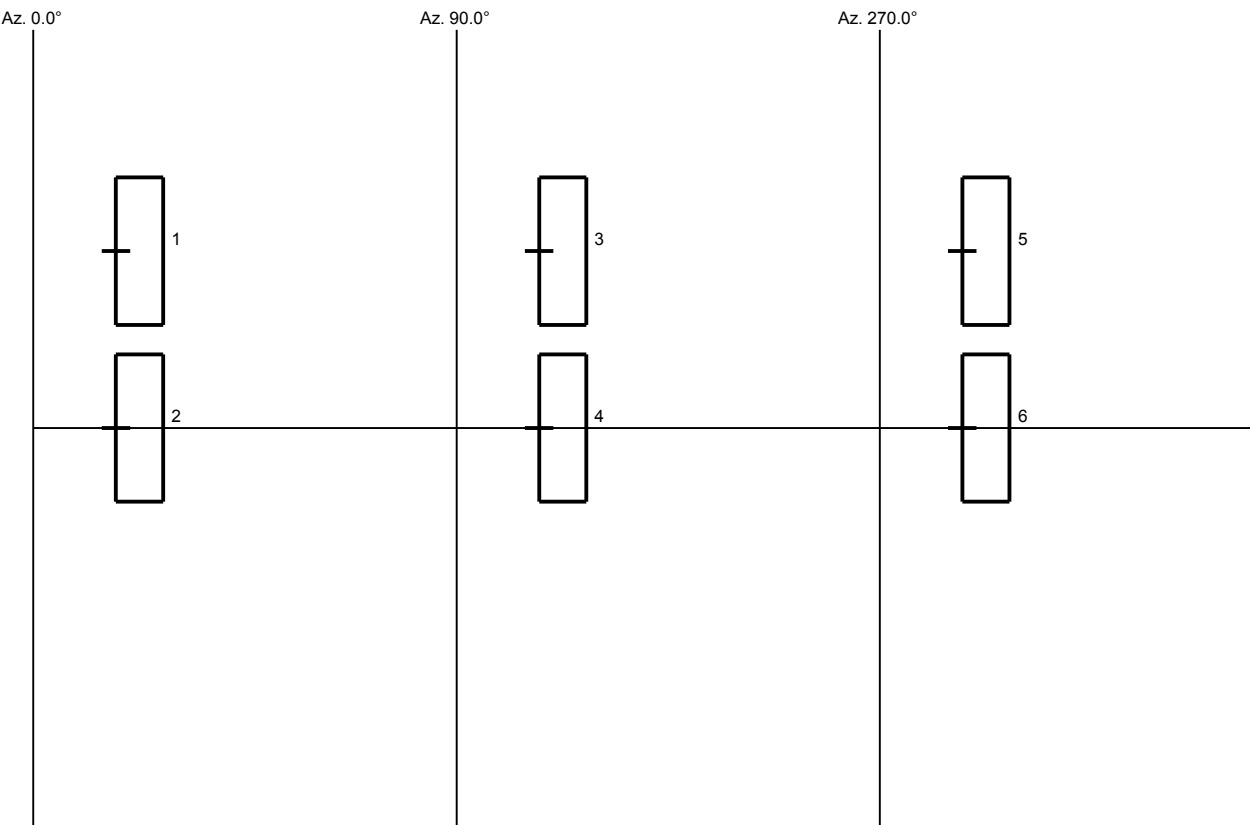
Geometr. and electrical data of Antenna System

	<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	16.667	0	0	0 +0.0	1.50	70.0	0.0	1	1	0.0	0.0
2	16.667	0	0	0 +0.0	0.00	70.0	0.0	1	1	0.0	0.0
3	16.667	0	90	0 +0.0	1.50	70.0	90.0	1	1	0.0	0.0
4	16.667	0	90	0 +0.0	0.00	70.0	90.0	1	1	0.0	0.0
5	16.667	0	270	0 +0.0	1.50	70.0	270.0	1	1	0.0	0.0
6	16.667	0	270	0 +0.0	0.00	70.0	270.0	1	1	0.0	0.0

Plan of antenna system



Side of antenna system



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Antennas arrays data

A. Antennas array azimuth (°/N)	0	90	270
B. Number of antennas	2	2	2
C. Nominal power supply (W)	333.33	333.33	333.33
D. Losses (addit. + cables) (dB)	0.0	0.0	0.0
E. Effective power supply (W)	333.33	333.33	333.33
F. Theor. maximum gain (dBd)	10.51	10.51	10.51
G. Distribution losses (dB)	0.00	0.00	0.00
H. Nominal max gain [F - G] (dBd)	10.51	10.51	10.51
I. Compensation losses (dB)	0.00	0.00	0.00
J. Effec. max gain [H - I] (dBd)	10.51	10.51	10.51
K. Effec. max gain (times)	11.25	11.25	11.25
L. Effec. max power [E * K] (KW)	3.7490	3.7490	3.7490
M. Max power depr. angle (°)	0.0	0.0	0.0
N. Max power az. angle (°)	0	90	270

Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	5.4	90	6.3	180	-14.3	270	6.3
10	4.2	100	5.7	190	-14.3	280	5.6
20	3.7	110	4.5	200	-12.8	290	5.1
30	4.8	120	3.2	210	-8.6	300	5.7
40	6.3	130	1.3	220	-2.3	310	6.6
50	6.6	140	-2.3	230	1.3	320	6.3
60	5.7	150	-8.6	240	3.2	330	4.8
70	5.1	160	-12.8	250	4.5	340	3.7
80	5.6	170	-14.3	260	5.7	350	4.2