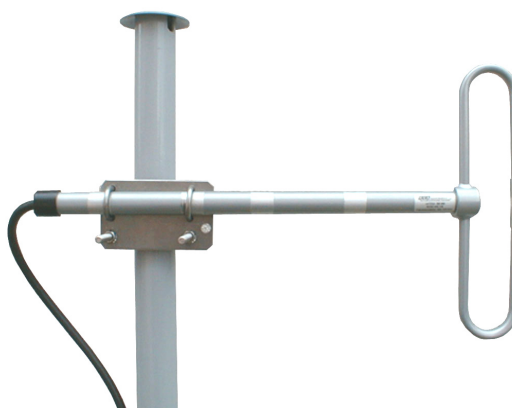


BO 400

DESCRIPTION

Antenna BO 400 is mounted to different diameters of masts by separately ordered antenna holders. Antenna holders are produced of stainless or hot dip zinc steel. They are fastened to the masts by stainless stirrup of U-shaped form and nuts. Antenna is possible to mount to the any part of mast. Influence of mast to radiation pattern is obvious from enclosed diagrams.

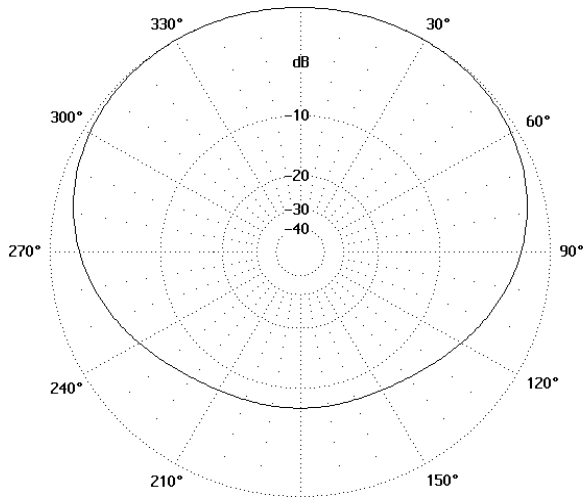
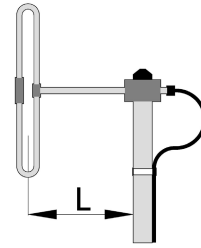
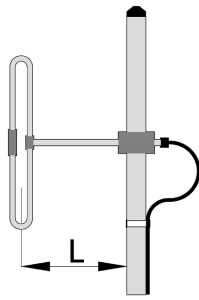


TECHNICAL SPECIFICATIONS

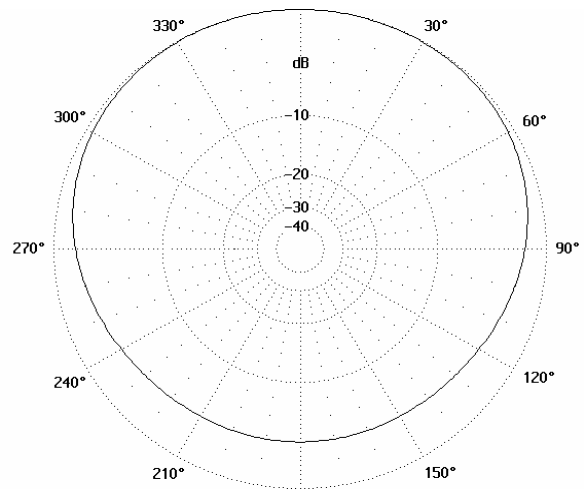
Type	BO 400	
Frequency	MHz	400 ÷ 470
Gain in the front / back direction *	dBi	4.7 / -3.3
Gain in the side direction (90°, 270°) **	dBi	4.6
Radiation pattern (at * / **)	offset (omnidirectional with shift axis) / elliptical	
Polarization	vertical	
Impedance	Ω	50
VSWR	< 1.5	
Max. input power	W	200
Grounding	All metal parts of antenna including the mounting kit are DC grounded	
Material antenna	lacquered aluminium alloy, plastic, stainless steel	
Antenna holder	mm	RCAK 400 43 – Ø 35 ÷ 76 (standard)
		RCAK 400 53 – Ø 60 ÷ 90
		RCK 100 000 – Ø 90 ÷ 120
Material of holder	aluminium alloy, hot dip zinc steel, all screws and nuts: stainless steel	
Weight of antenna / holder	kg	0.7 / 0.5
Max. wind velocity	km / hour	160
Wind load (at 160 km / hour)	N	30
Dimensions of antenna l x h	mm	580 x 310
Connector	type "N" – female	

* The distance (L) from the mast $\lambda/4$ (~ 165 mm)

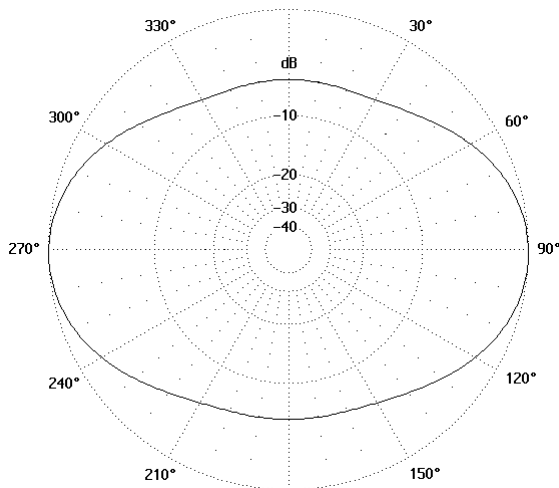
** The distance (L) from the mast $\lambda/2$ (~ 330 mm)



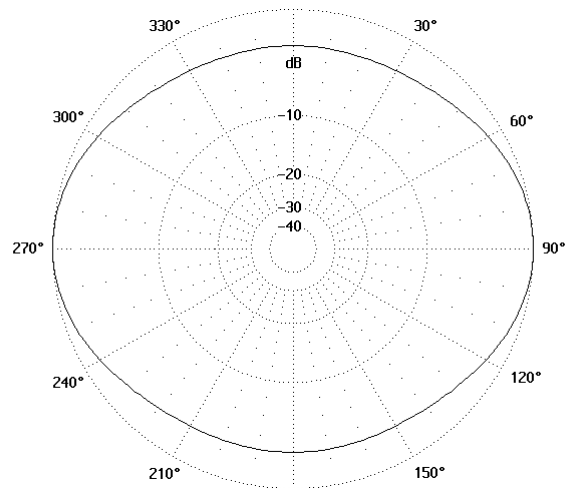
Radiation pattern – H plane
The antenna is installed **in the middle of the mast.**
The frequency of 455 MHz, $L = (\lambda/4)$ 165 mm*



Radiation pattern – H plane
The antenna is installed **on the top of the mast.**
The frequency of 455 MHz, $L = (\lambda/4)$ 165 mm*



Radiation pattern – H plane
The antenna is installed **in the middle of the mast.**
The frequency of 455 MHz, $L = (\lambda/2)$ 330 mm**



Radiation pattern – H plane
The antenna is installed **on the top of the mast.**
The frequency of 455 MHz, $L = (\lambda/2)$ 330 mm**