

## VHF B.III ANTENNA PANEL

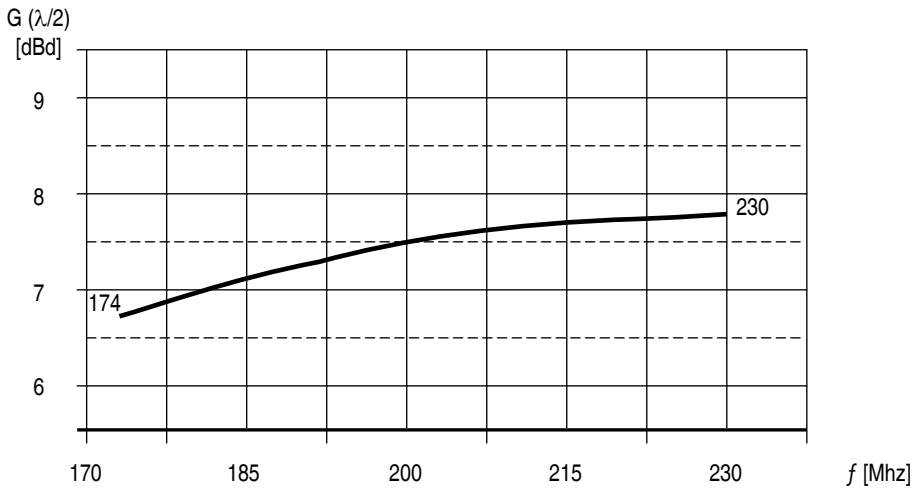
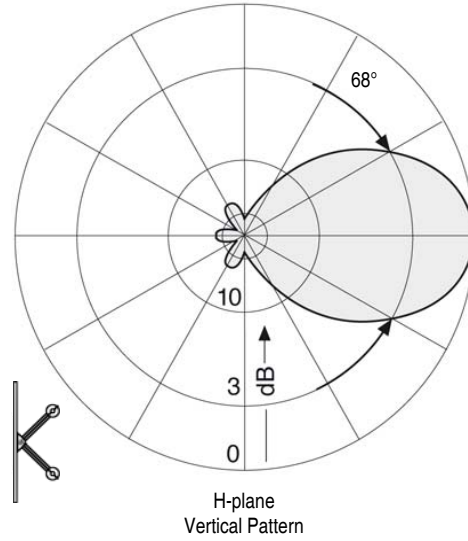
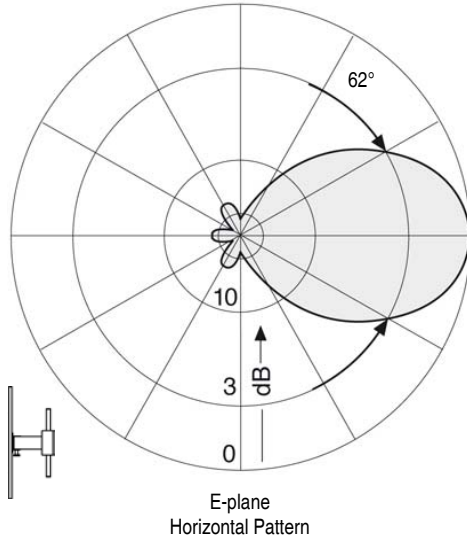
The high quality, professional and cost-effective solution



The **LB 10** antenna panel, horizontal or vertical polarized, broad-band over the entire VHF B. III frequency range, is rugged in construction and designed to be durable and resistant to extreme weather conditions.

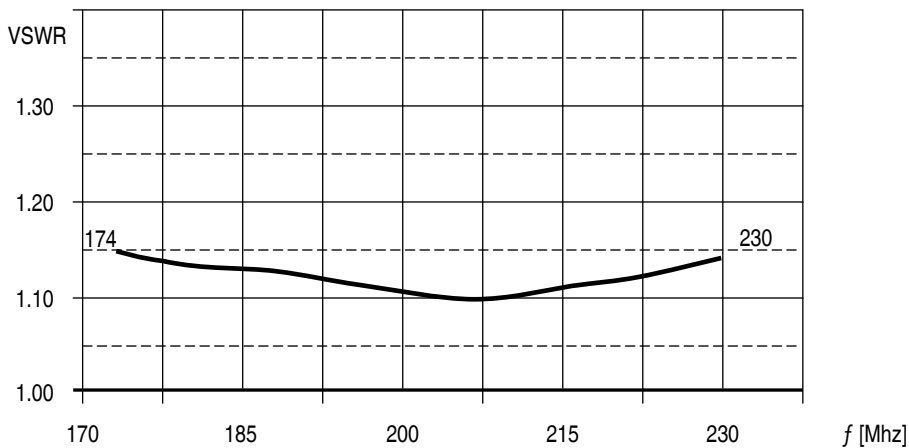
The **LB 10** antenna panel is the basic unit from which more complex antenna systems may be built, designed to obtain radiation patterns which give the best performance in the areas to be served.

### Radiation Patterns @ 200MHz



LB 10 Gain (referred to half wave dipole - dBd) Vs. frequency

Note: for gain referred to isotropic radiator (dBi) data in dBd has to be increased by 2.2dB

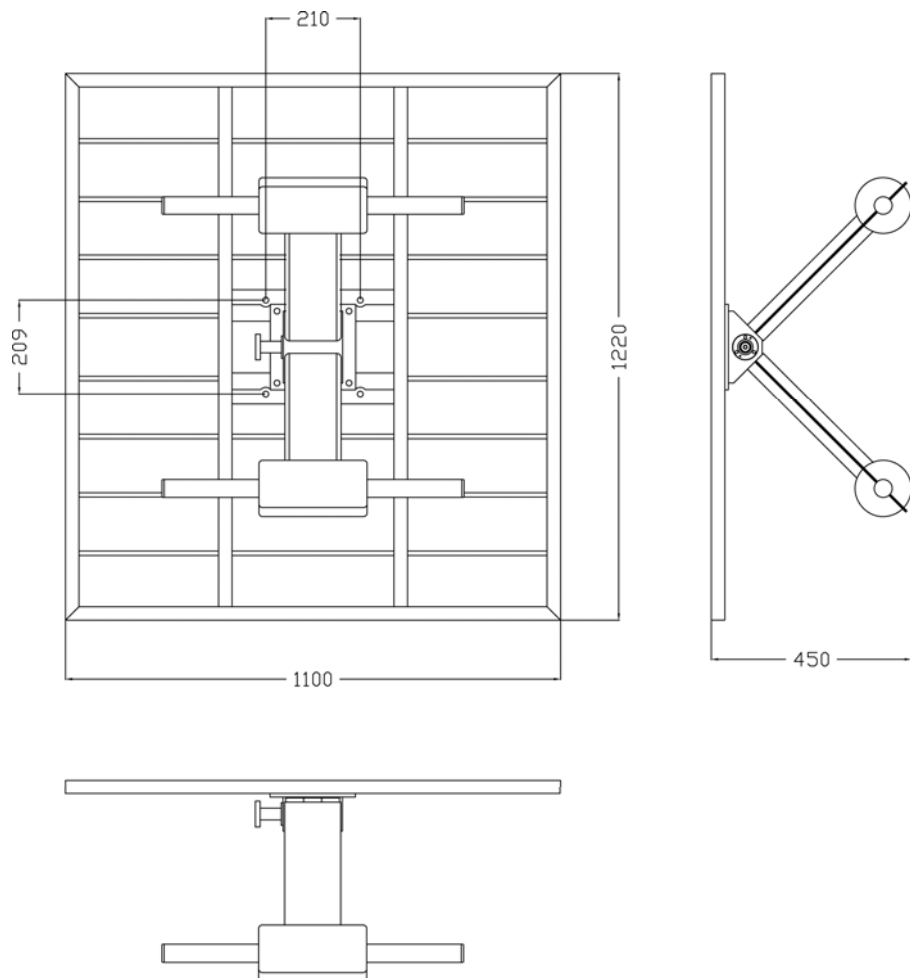


LB 10 VSWR Vs. frequency

Note: VSWR 1.1 correspond to 26.4dB return loss



### Mechanical drawing



## Technical data

### ELECTRICAL SPECIFICATIONS

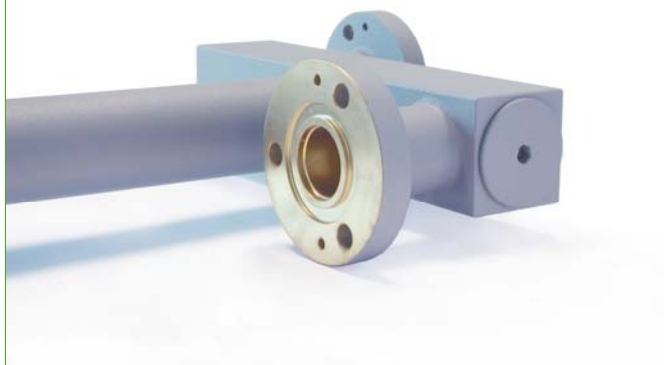
Frequency range:	174÷230 MHz
Average gain ( $\lambda/2$ ):	7.4 dBd
Average gain (ISO):	9.6 dBi
Impedence:	50 $\Omega$
Max VSWR:	1.15:1
Max Power:	2kW
Connector:	EIA flange 7/8"
Horizontal beam-width (@ -3dB):	about 62°
Vertical beam-width (@ -3dB):	about 68°

### MECHANICAL SPECIFICATION

Materials	Reflector grid and dipoles:	aluminium
	Screws:	stainless steel AISI 304
	Radome:	fiber-glass (red color – on request other colors)
	Lines:	silver plated brass
	Isolating material for splitters/lines:	Teflon® (PTFE)
	O-rings:	silicone
Mounting:		by means of 4 screws M12
Weight:		14Kg.
Wind load:		front 550N @ 160Km/h side 270N @ 160Km/h

### AVAILABLE MAIN OPTIONS:

- Power splitters
- Connecting cables
- Antenna array design



All specifications contained in this document may be changed without prior notice.