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Antennas 30-50 MHz

Model	Short description	Gain, dBi	Frequency, MHz
V0 LB	Vertical antenna	41-48.5	call
DP1 LB(L)	Single folded dipole, adjusted	33-40	5.15
DP1 LB(H)	Single folded dipole, adjusted	40-50	5.15
DP2 LB(L)	Two dipoles and power divider, adjusted	33-40	8,15
DP2 LB(H)	Two dipoles and power divider, adjusted	50-40	8,15
GPW-1LB(L)	GP 2.7 m	37-43	3.35
GPW-1LB(H)	GP 2.4 m	40-47	3.35

2009



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41-48.5 MHz Vertical antenna V0 LB

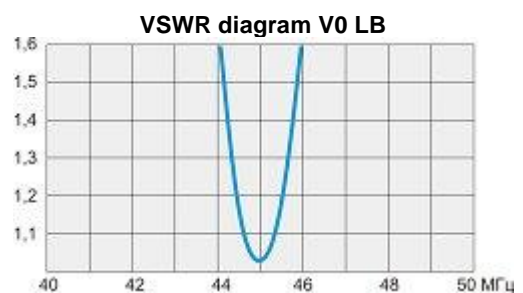
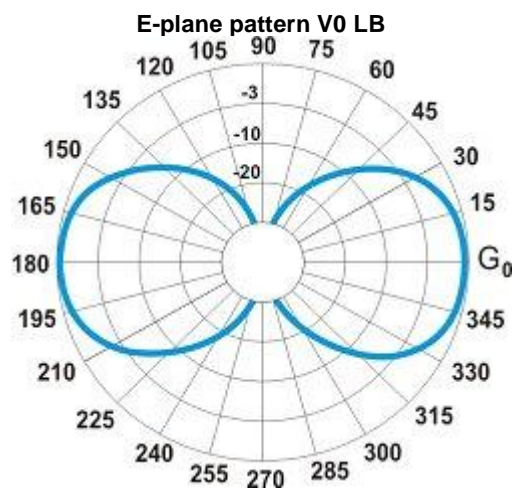


Electrical specifications

Model	V0 LB
Operating frequency band, MHz	41-4.5
VSWR, not more than	1.5
Gain, dBi	2.2
Sector in vertical plane , -3dB	78°
Impedance, Ohm	50
Max. power input, W	200
Lightning protection	DC grounded
Adjustable	need

Mechanical specifications

Model	V0 LB
Height/Length, mm	3950
Mast diametr, mm	35-70
Rated wind velocity, m/s	40
Temperature range, °C	from -50 to +50
Connector	SO-239





30-50 MHz Dipole antennas DP1 LB, DP2 LB

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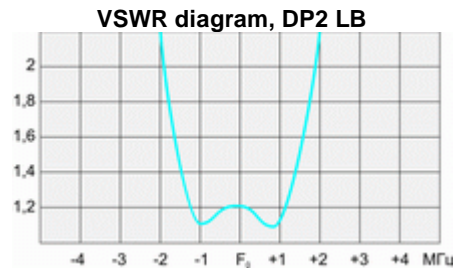
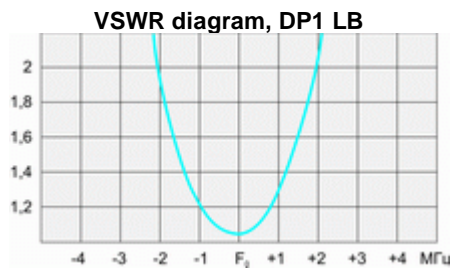
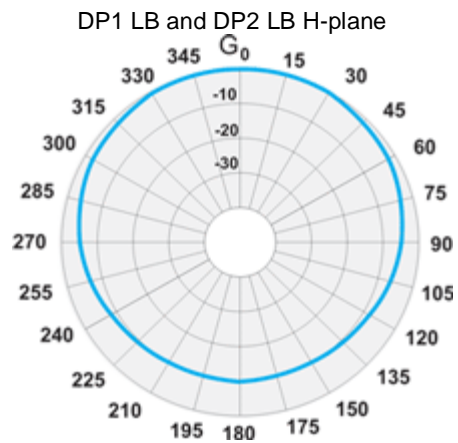
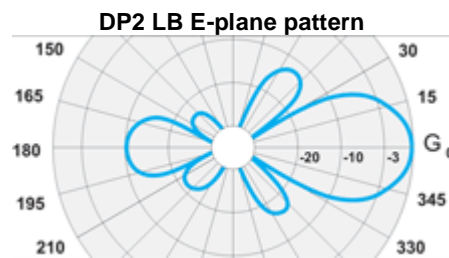
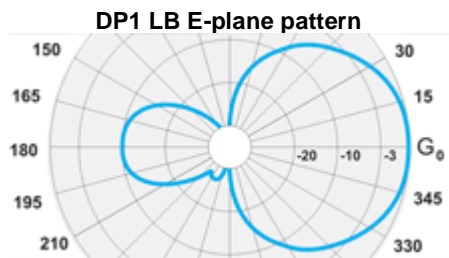
Electrical specifications

Model	DP1 LB(L)	DP1 LB(H)	DP2 LB(L)	DP2 LB(H)
Operating frequency band, MHz	33-40	40-50	33-40	40-50
Frequency bandwidth, MHz			4	
VSWR, not more than			1.5	
Gain, dBi	5.15	5.15	8.15	8.15
Sector in vertical plane, -3dB	70°	70°	35°	35°
Impedance, Ohm			50	
Max. power input, W	500	500	800	800
Adjustable			needed	

Mechanical specifications

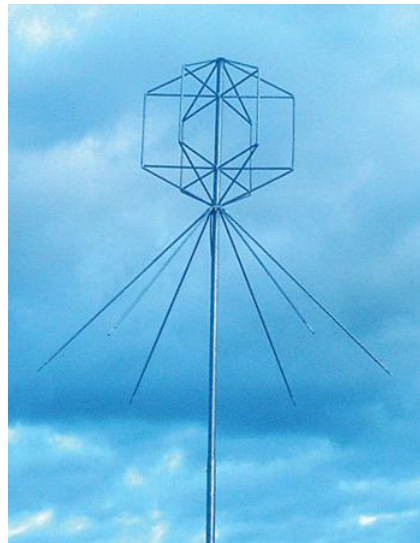
Model	DP1 LB(L)	DP1 LB(H)	DP2 LB(L)	DP2 LB(H)
Weight, kg	6	6	13	13
Height/Length, M	2.7-4.5	2.7-4.5	8.2-10.8	8.2-10.8
Construction material			Aluminium alloy	
Mast diameter, mm			38-65	
Rated wind velocity, m/s			42	
Wind loading area, m ²	0,16	0.16	0.33	0.33
Load of side wind 45 m/s, H	187	187	374	374
Rated wind velocity with 0.5" icing, m/s			28	
Temperature range, °C			from -50 to +50	
Connector			N-female	

Antenna DP1 LB is highly effective as a component for trunking and common repeaters with significant (up to 4 MHz) TX/RX separation. It is very handy for adjustment and installation due to its design. In spite of its dimensions antenna has high mechanical strength, provided by additional mounting brackets. You can refuse removing transmitter for a long distance from mast as an advantage of antenna power supply system. Antenna DP2 LB is two-level collinear antenna with high gain factor. Only girder masts suit for its installation. Dipoles, mounted on opposites sides of the antenna, provide possibility to produce practically circular directional pattern (with some loss of the gain). Antenna has wide operating bandwidth, as single-dipole antenna does. Equipped with TK-52LB adders.





37-47 MHz Vertical antenna GPW 1LB



Electrical specifications

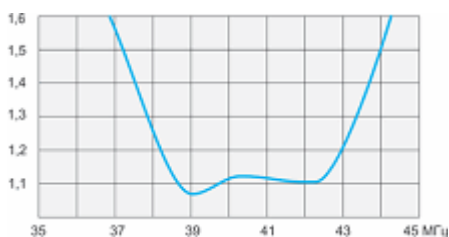
Model	GPW 1LB(L)	GPW 1LB(H)
Operating frequency band, MHz	37-43	40-47
VSWR, not more than		1.5
Gain, dBi		3.35
Impedance, Ohm		50
Max. power input, W		100
Lightning protection		yes
Adjustable		not need

Mechanical specifications

Model	GPW 1LB(L)	GPW 1LB(H)
Height/Length, M	2.7	2.4
Mast diameter, mm		50-110
Construction material		Aluminium alloy
Rated wind velocity, m/s		25
Temperature range, °C		from -50 to +50
Connector		N-female

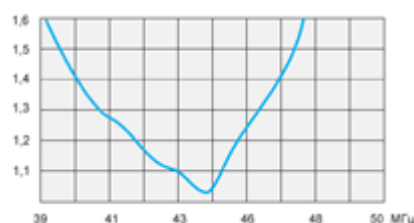
The financial revival of company owners has led to increased demand for wideband antennas that allow working with simplex and duplex radio stations with big frequency separation between the channels. After all, the ordinary spike antennas have the bandwidth not larger than 800 KHz what often appears to be insufficient for one-channel duplex wireless station. Our new product - a wide-band quarter-wave antenna GPW-1LB - allows "loading into it" the multiple channels within the range of 7 MHz.

GPW 1LB(L)



VSWR diagram

GPW 1LB(H)



GPW 1LB E-plane pattern

