



143-178 MHz Directional antennas Y5 VHF (148,L,M,H)

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Electrical specifications

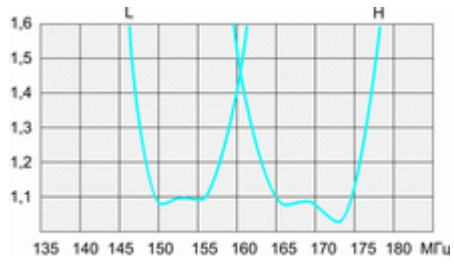
Model	Y5-148	Y5 VHF(L)	Y5 VHF(M)	Y5 VHF(H)
Operating frequency band, MHz	143-156	148-157	153-168	161-178
VSWR, not more than			1.5	
Gain OFFSET, dBi			10.15	
Sector , -3dB				
in vertical plane			55°	
in horizontal plane			74°	
Impedance, Ohm			50	
Max. power input, W			200	

Mechanical specifications

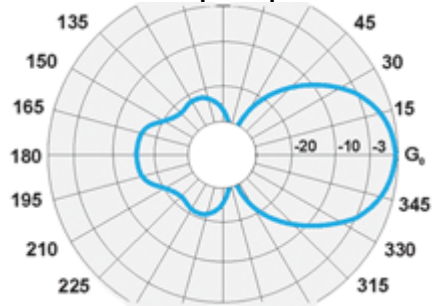
Model	Y5-148	Y5 VHF(L)	Y5 VHF(M)	Y5 VHF(H)
Weight, kg	3.7	3.44	3.5	3.59
Size, mm			1680x950x60	
Construction material			Aluminium alloy	
Mast diametr, mm			38-65	
Rated wind velocity, m/s			45	
Wind loading area, m ²		0.12	0.13	0.12
Load of side wind 45 m/s, H		140	145	140
Rated wind velocity with 0.5" icing, m/s			28	
Temperature range, °C			from -50 to +50	
Connector			N-female	
Size of box, mm			1800x120x120	

Antenna Y5 VHF is five-component Yagi antenna. Due to folded dipole usage in combination with symmetric power supply, antenna has comparatively wide operating frequency band. Three different models will provide coverage for every VHF subrange: model "L" for railroad transport, model "M" for paging, model "H" for trunking communication. Antenna is produced in collapsible version for the ease of transportation.

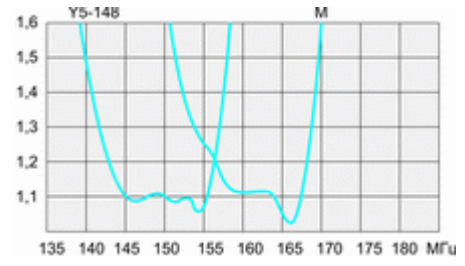
VSWR diagram,Y5 VHF(L, H)



Y5 VHF E-plane pattern



VSWR diagram,Y5-148, Y5 VHF(M)



Y5 VHF H-plane pattern

