



140-179 MHz Directional antennas Y3 VHF (L, M, H)

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Electrical specifications

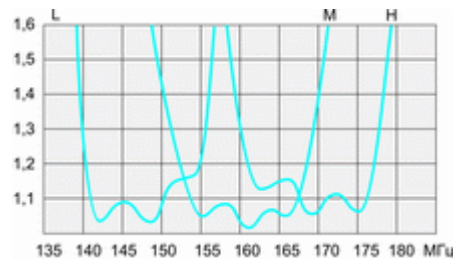
Model	Y3 VHF(L)	Y3 VHF(M)	Y3 VHF(H)
Operating frequency band, MHz	140-153	150-172	157-179
VSWR, not more than		1.5	
Gain, dBi		7.15	
Sector , -3dB in vertical plane		65°	
in horizontal plane		120°	
Impedance, Ohm		50	
Max. power input, W		400	

Mechanical specifications

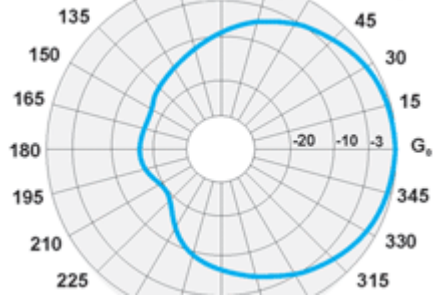
Model	Y3 VHF(L)	Y3 VHF(M)	Y3 VHF(H)
Weight, kg	2.85	2.8	2.75
Size mm		1100x950x60	
Construction material		Aluminium alloy	
Mast diameter, mm		38-65	
Rated wind velocity, m/s		50	
Wind loading area, m ²	0.11	0.08	0.07
Load of side wind 45 m/s, H	122	98	83
Rated wind velocity with 0.5" icing, m/s		28	
Temperature range, °C		from -50 to +50	
Connector		N-female	
Size of box, mm		1200x120x120	

Antenna Y3 VHF is three-component Yagi antenna. Due to folded dipole usage in combination with symmetric power supply, antenna has comparatively wide operating frequency band. It is recommended for construction of array antennas with high gain factor and remote subscriber stations. Three models designed specifically for operation at frequencies with centers at 148 MHz (L), 159.975 MHz (M) and 165 MHz (H) are produced now. Antenna is produced in collapsible version for the ease of transportation.

VSWR diagram, Y3 VHF(L, M, H)



Y3 VHF H-plane pattern



Y3 VHF E-plane pattern

