



300-346 MHz Directional antennas Y5 ALT, Y5 ALT M

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Y5 ALT



Y5 ALT(M)

Electrical specifications

Model	Y5 ALT	Y5 ALT M
Operating frequency band, MHz	300-346	295-350
VSWR, not more than		1.5
Gain, dBi	10.15	8.5
Sector, -3dB in vertical plane	45°	60°
in horizontal plane	65°	75°
Polarization		vertical
Impedance, Ohm		50
Max. power input, W		200

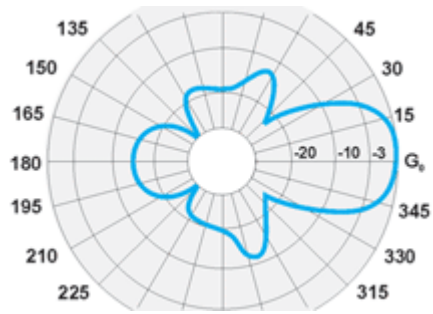
Mechanical specifications

Model	Y5 ALT	Y5 ALT M
Weight, kg	1.25	1.5
Size, mm	990x480x30	1220x500x130
Construction material		Aluminium alloy
Mast diameter, mm	25-55	38-65
Rated wind velocity, m/s		45
Wind loading area, m ²	0.06	0.0536
Load of side wind 45 m/s, H		65
Rated wind velocity with 0.5" icing, m/s		28
Temperature range, °C		from -50 to +50
Connector		N-female

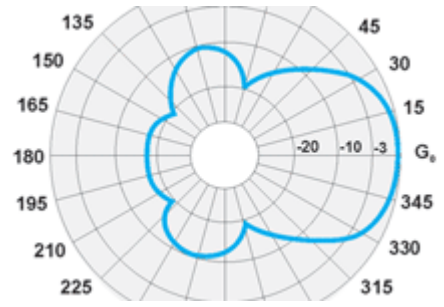
Advantages of antenna Y5 ALT: operation at greatly separated frequencies (36 MHz), high gain, possibility of gain increase due to build up of array antennas, all-welded construction, providing mechanical strength, reliable polymeric coating, protecting from hostile environment and icing, enable to use it as base station antenna in communication systems.

Our new design development is a five-element wave channel with loop vibrator and symmetrical feeding system Y5 ALT M. The antenna is implemented in more strong variant if compared with Y5 ALT. The mechanical strength of this new antenna is ensured by the welded construction and cast silumin legs that allow fixing antenna on the mast of diameter 38-65 mm. The demountable vibrator improves the protection against the weather impact.

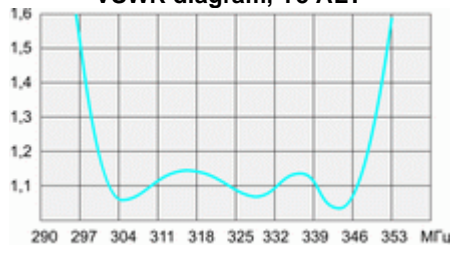
Y5 ALT E-plane pattern



Y5 ALT H-plane pattern



VSWR diagram, Y5 ALT



VSWR diagram, Y5 ALT M

