

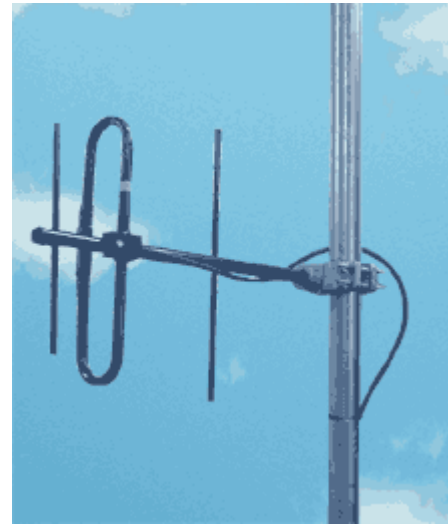


300-350 MHz Directional antennas Y3 ALT, Y3 ALT M

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Y3 ALT



Y3 ALT(M)

Electrical specifications

Model	Y3 ALT	Y3 ALT M
Operating frequency band, MHz	300-350	290-350
VSWR, not more than		1.5
Gain, dBi	7.65	6
Sector, -3dB in vertical plane	88°	70°
in horizontal plane	106°	140°
Polarization		vertical
Impedance, Ohm		50
Max. power input, W		200

Mechanical specifications

Model	Y3 ALT	Y3 ALT M
Weight, kg	0.85	1.3
Size, mm	620x520x30	800x500x130
Construction material		Aluminium alloy
Mast diameter, mm	25-55	38-65
Rated wind velocity, m/s		45
Wind loading area, m ²	0.04	0.039
Load of side wind 45 m/s, H		48
Rated wind velocity with 0.5" icing, m/s		28
Temperature range, °C		-50 to +50
Connector		N-female

Rushing for antenna Y5 ALT has led us to development of new, more technologically advanced and inexpensive three-component Yagi antenna Y3 ALT construction. Among other advantages of this antenna possibility of operation at greatly separated frequencies (36 MHz), high gain, all-welded construction, providing mechanical strength, reliable polymeric coating, protecting from hostile environment and icing can be considered. All these make antenna Y3 ALT very popular for telemetry and radiotelephony systems 300-350 MHz frequency range.

We have developed a new model of three-element wave channel with loop vibrator and symmetrical feeding system - Y3 ALT M. The antenna is implemented in more strong variant if compared with Y3 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. It is recommended to use this antenna in systems of MPT 1327, telemetry and the river fleet communications.

