






107497, Moscow Chernicinsky pr-d 7/1
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Directional γ -match antennas

Model	Short description	Band, MHz	Gain, dBi	Price, EUR
Y3 VHF γ	3-element yagi with γ -match, adjusted, SO-239	144-170	7.65	58
Y5 VHF γ	5-element yagi with γ -match, adjusted, SO-239	144-170	10.15	89
Y9 VHF γ	9-element yagi with γ -match, adjusted, SO-239	150-170	13.65	191
Y5-CDMA	5-element yagi	453-467	8.15	
Y5-433	5-element yagi	426-440	8.15	
Y5-446	5-element yagi	436-454	8.15	



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144-170 MHz Directional antenna Y3 VHFy

Electrical specifications

Model	Y3 VHFy
Operating frequency band, MHz	144-170
VSWR, not more than	1.5
Gain, dBi	7.65
Front-to-back ratio, dB	14
Sector, -3dB	
E-plane pattern	50°
H-plane	112°
Polarization	vertical./horizont.
Impedance, Ohm	50
Max. power input, W	100

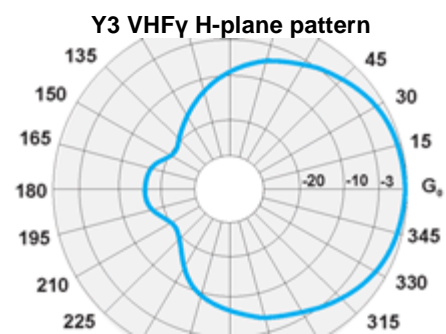
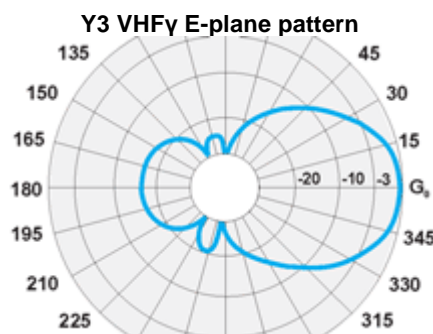
Mechanical specifications

Model	Y3 VHFy
Weight, kg	1.35
Size, mm	1050x1050x83
Construction material	Aluminium alloy
Mast diameter, mm	25-55
Rated wind velocity, m/s	45
Wind loading area, m ²	0.07
Load of side wind 45 m/s, H	76
Rated wind velocity with 0.5" icing, m/s	28
Temperature range, °C	from -50 to +50
Connector	SO-239
Size of box, mm	1100x120x120

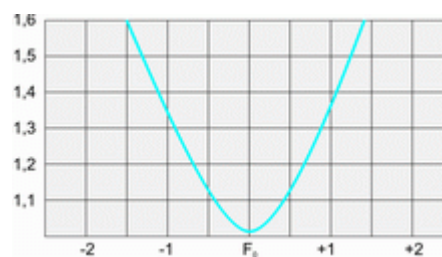


Antenna Y3 VHFy is the most inexpensive and effective antenna for remote subscriber radio stations (up to 40-50 km) and telemetry systems, also. In the last case it is recommended to use it in horizontal polarization.

This is the most popular antenna for communication at a short distance among wireless communications enthusiasts.



VSWR diagram, Y3 VHFy





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144-170 MHz Directional antenna Y5 VHFy



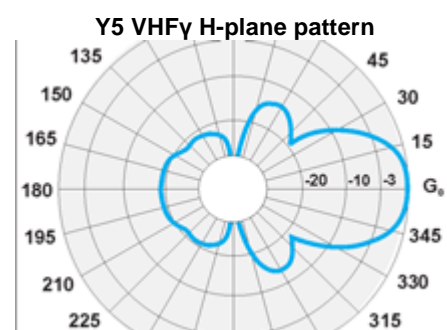
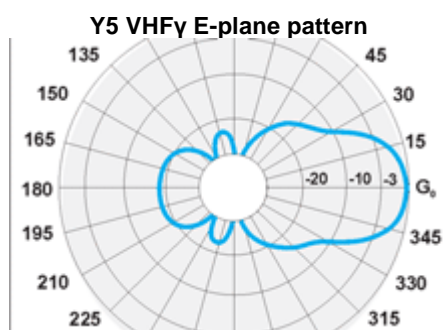
Electrical specifications

Model	Y5 VHFy
Operating frequency band, MHz	144-170
VSWR, not more than	1.5
Gain, dBi	10.15
Front-to-back ratio, dB	20
Sector, -3dB	
E-plane	40°
H-plane	46°
Polarization	vertical./horizont.
Impedance, Ohm	50
Max. power input, W	100

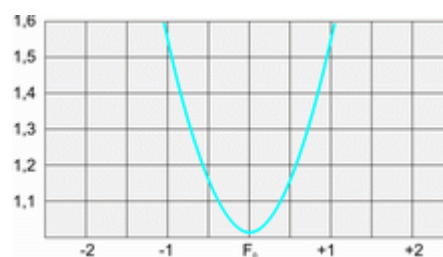
Mechanical specifications

Model	Y5 VHFy
Weight, kg	1.95
Size, mm	1800x1050x83
Construction material	Aluminium alloy
Mast diameter, mm	25-55
Rated wind velocity, m/s	45
Wind loading area, m ²	0.11
Load of side wind 45 m/s, H	130
Rated wind velocity with 0.5" icing, m/s	28
Temperature range, °C	from -50 to +50
Connector	SO-239
Size of box, mm	1800x120x120

Antenna Y5 VHFy was developed by American wireless enthusiast K8CC using computer optimizer and has the highest technical capabilities (gain and low fringe radiation) peculiar to five-component antennas. After the number of field studies being conducted our engineers can confirm this. Such antenna provides stable radio communication at distances up to 80 km long at cross-country. Highly-directional pattern enables to use antenna as receiving antenna in order to "turn aside" from interference, since front/side attenuation constitutes only 20dB!



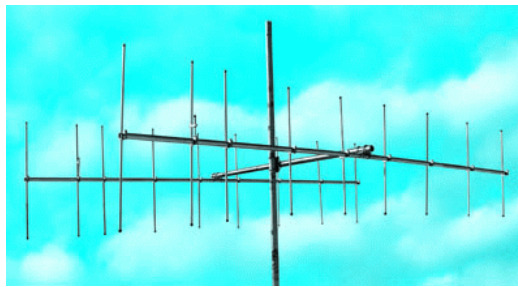
VSWR diagram, Y5 VHFy





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150-170 MHz Directional antenna Y9 VHFy



Electrical specifications

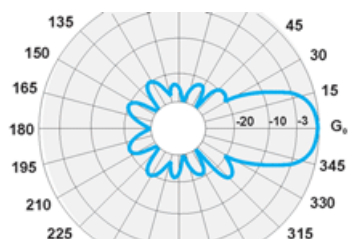
Model	Y9 VHFy
Operating frequency band, MHz	150-170
VSWR, not more than	1.5
Gain, dBi	13.65
Front-to-back ratio, dB	20
Sector, -3dB	
E-plane	34°
H-plane	39°
Polarization	vertical/horizontal
Impedance, Ohm	50
Max. power input, W	100

Mechanical specifications

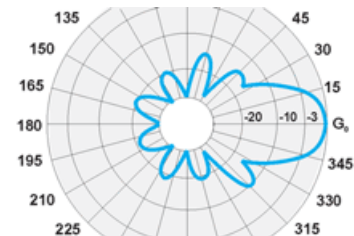
Model	Y9 VHFy
Weight, kg	5.1
Size, mm	4000x1000x100
Construction material	Aluminium alloy
Mast diameter, mm	25-55
Rated wind velocity, m/s	42
Wind loading area, m ²	0.2
Load of side wind 42 m/s, H	230
Rated wind velocity with 0.5" icing, m/s	28
Temperature range, °C	from -50 to +50
Connector	SO-239
Size of box, mm	2005x120x120

Due to its high gain (up to 11 dBd), nine-component Yagi antenna Y9 VHFy is implemented for communication between subscriber stations and repeater, between subscriber stations, and between remote telemetry systems transmitters, also.

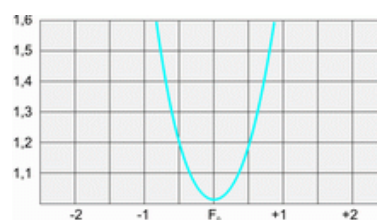
Y9 VHFy E-plane pattern



Y9 VHFy H-plane pattern



VSWR diagram, Y9 VHFy





453-467 MHz
Directional antenna Y5-CDMA
453-467 MHz,
Y5-433 426-440 MHz,
Y5-446 436-454 MHz

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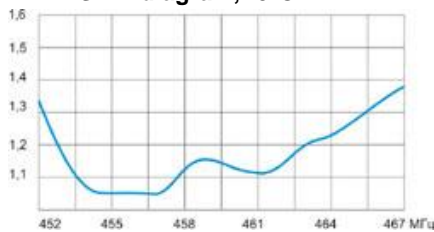
Electrical specifications

Model	Y5-CDMA	Y5-433	Y5-446
Operating frequency band, MHz	453-467	426-440	436-454
VSWR, not more than	1,5	1.5	1.5
Gain, dBi	8.15	8.15	8.15
Front-to-back ratio, dB	15	15	15
Sector , -3dB			
E-plane pattern	55°	55°	55°
H-plane	86°	86°	86°
Polarization	vertical	vertical	vertical
Impedance, Ohm	50	50	50
Max. power input, W	50	50	50

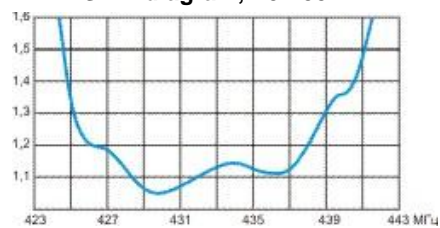
Mechanical specifications

Model	Y5-CDMA	Y5-433	Y5-446
Weight, kg		0.65	
Size, mm		640x330x20	
Construction material		Aluminium alloy	
Mast diametr, mm		25-55	
Rated wind velocity, m/s		45	
Load of side wind 45 m/s, H		10	
Rated wind velocity with 0.5" icing, m/s		28	
Temperature range, °C		from -50 to +50	
Connector		TNC-male	
		low loss cable 2.5 m	

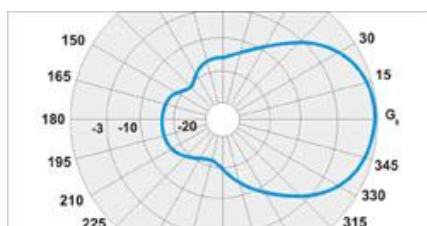
VSWR diagram, Y5-CDMA



VSWR diagram, Y5-433



"Y5" antennas H-plane pattern



"Y5" antennas E-plane pattern

