



5150-5350 MHz Subscribers' antennas SU-12Y, SU-15Y, SU-18Y

107497, Moscow Chernicinsky pr-d 7/1
Tel.: (495) 775-43-19, 462-44-14
Tel./fax: 462-44-14
E-mail: radial@radial.ru
www.radial.ru

SU-12Y



SU-15Y



SU-18Y



Electrical specifications

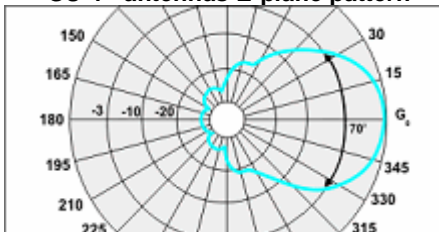
| Model | SU-12Y | SU-15Y | SU-18Y |
|-------------------------------|-----------|-----------|-----------|
| Operating frequency band, MHz | 5150-5350 | 5150-5350 | 5150-5350 |
| Gain, dBi | 12 | 15 | 18 |
| VSWR, not more than | 1.5 | 1.5 | 1.5 |
| Front-to-back ratio, dB | 35 | 39 | 30 |
| Polarization | vertical | vertical | vertical |
| Max. power input, W | 10 | 10 | 10 |
| Sector in H-plane (-3 dB) | 26° | 12° | 6° |
| Sector in E-plane (-3 dB) | 70° | 70° | 70° |
| Impedance, Ohm | 50 | 50 | 50 |

Mechanical specifications

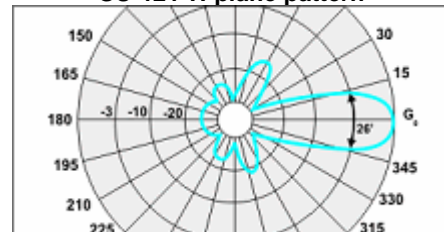
| Model | SU-12Y | SU-15Y | SU-18Y |
|--------------------------|--|------------|------------|
| Dimensions (LxWxH), mm | 130x50x100 | 300x65x195 | 520x60x200 |
| Weight, kg | 0.2 | 0.54 | 1.1 |
| Rated wind velocity, m/s | 55 | 55 | 43 |
| Radiator | PCB | PCB | PCB |
| Radome | grey, ABS | grey, ABS | grey, ABS |
| Mounting | On a wall or on a mast with "Norma", CP-55D, CP-1150, CP-220 | | |
| Connector | N-female on a cable | | |

A new set of the subscribers' antennas for 5,15-5,35 GHz includes the models SU-12Y with the gain of 12 dBi, SU-15Y with the gain of 15 dBi, SU-18Y with the gain of 18 dBi. They have a convenient cable output, are mounted both on the mast and on the flat surface and possess an all-weather types performance. By their construction the active elements compose a printed circuit board, which is plated by a special SHF - lacquer in order to ensure the antennas' characteristics not to be changed during the whole exploitation period. The radome is encapsulated and, as well as in all antennas, a drainage is provided to escape the condensate formation. The cable output is implemented on the high-quality cable of Huber-Suhner production and on a connector of Rosenberger production what ensures a stability of the characteristics.

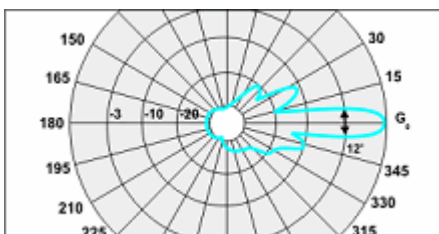
"SU-Y" antennas E-plane pattern



SU-12Y H-plane pattern



SU-15Y H-plane pattern



SU-18Y H-plane pattern

