



300-315/336-346 MHz Panel antennas RAV-2AR-90, RAV-2AT-90

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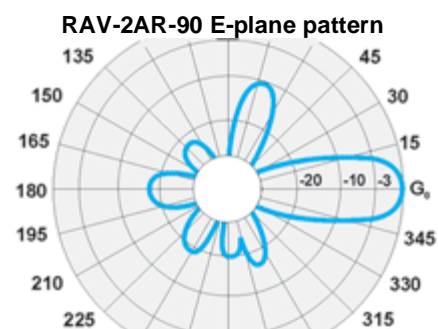
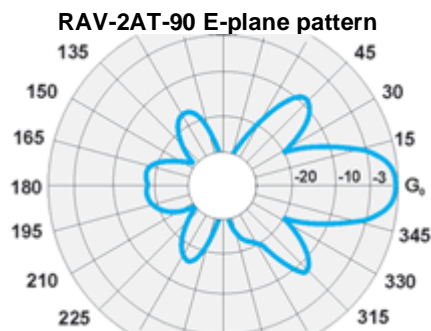
Electrical specifications

Model	RAV-2AR-90	RAV-2AT-90
Operating frequency band, MHz	300-315	336-346
VSWR, not more than		1.5
Gain, dBi		10
Sector in vertical plane, -3dB, +/- 1°	28°	24°
Sector in horizontal plane, -3dB, +/- 5°		90°
Impedance, Ohm		50
Max. power input, W		400
Lightning protection		yes

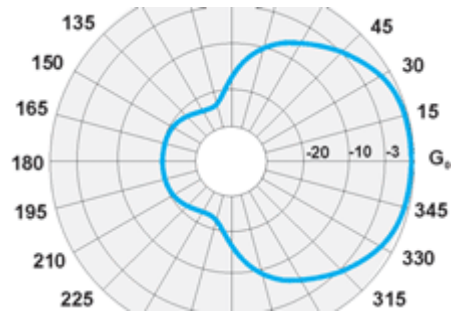
Mechanical specifications

Model	RAV-2AR-90	RAV-2AT-90
Weight not more than, kg	9.5	8
Radiating unit construction material		aluminum
Radome material		Fiberglass
Radome color		white
Standard mounting		to a 45-60 mm dia. tube
Optional mounting		wall mount or frame side mount
Rated wind velocity, m/s		40
Wind loading area, m ²		0.76
Temperature range, °C		from -50 to +50
Connector		7/16 DIN (N-female optional)
Size, mm		1900x400x80

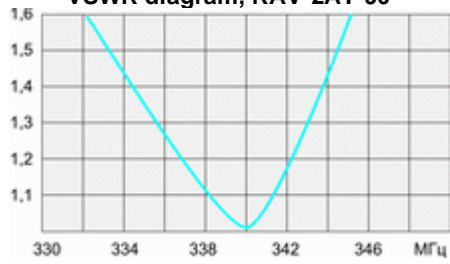
Considered antenna provides guaranteed 90-degrees half-power radiation sector and possesses high gain due to concentration of energy in horizontal and vertical plane. Patches, implemented in this array antenna, allowed us to create low-profile panel antenna with high gain factor, and forward/backward ratio. Antenna is protected by fiberglass radome with ultraviolet radiation resistant polyurethane coating. Recommended for applications like MPT1327 trunking systems and data transmission systems of corresponding frequency range.



RAV-2AT(AR)-90 H-plane pattern



VSWR diagram, RAV-2AT-90



VSWR diagram, RAV-2AR-90

