



405-470 MHz Lokomotive antennas PA-420, PA-450

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Electrical specifications

Model	PA-420	PA-450
Operating Frequency band, MHz	405-445	450-470
VSWR, not more than		1.5
Gain OFFSET, dBd		0
Sector in vertical plane , -3dB		65°
Impedance, Ohm		50
Max. Power input, W		300

Mechanical specifications

Model	PA-420	PA-450
Weight, kg		0.8
Height/Length, mm		190
Construction material		Aluminium alloy
Standard mounting		horizontal metal plane
Rated Wind Velocity, m/s		55
Wind Loading area, m ²		0.006
Rated Wind Velocity with 0.5" icing, m/s		42
Temperature Range, °C		from -50 to +50
Connector		N-female

Locomotive antennas PA-420, PA-450 and a new series of models "LA" are purposed to be exploited in the railroad communications systems within the range 405-470 MHz. The equipment of TETRA standard that works in this range as well as the data transfer system may include these mobile antennas. The models PA-420 and PA-450 are all-metal quarter-wave loop vibrators. Their construction provides the direct grounding and the electric shock protection. The "LA" models have low-profile construction, their height does not exceed 80 mm and they are protected by a strong case made of ABS-plastic. This ensures the improved aerodynamic characteristics and additional electrical safety of this antenna. The construction is grounded by direct current.

