Compact flat wideband **RS/AB** antenna

RS/AB antenna belongs to compact flat linearly polarized antennas with built-in terminating resistor and is intended for effective reception of electromagnetic emissions in a wide frequency range.

Picture 1

Antenna axis

Antenna tip

Specifications

1. Working frequency range - from 100 MHz to 4500 MHz
2. Impedance –50 Ω
3. Typical ratio values of standing wave:
* not more than 2.5 (in frequency range from 2500 MHz to 4500 MHz);
* not more than 3.0 (in frequency range from 1100 MHz to 2500 MHz);
* not more than 3.5 (in frequency range from 400 MHz to 1100 MHz);
* not more than 4.0 (in frequency range from 120 MHz to 400 MHz);
* not more than 5.0 (in frequency range from 100 MHz to 120 MHz).
1. Radiation pattern – quasi-isotropic (weakly directional by type of electric dipole)

1. Directions of effective receiving of a linearly polarized signal (on the same polarization):
* both directions perpendicular to the plane of the device;
* forward and back in the direction of the device’s axis.
1. Typical values of dependence of gain factor G of antenna from frequency F (calculated on the basis of measurement of ratios of transmission between 2 oriented to each other antennas’ planes) are presented in pic. 2.



1. Voltage standing wave ratio (VSWR) and module of transmission ratio measured at antenna illumination by RS/AB measuring ultra-wideband antenna at 1.6m distance.



**Модуль коэффициента передачи (КП), дБ (Калиброванный)**

КСВН **(Калиброванный)**

Частота, МГц

КП1 (плоскостью)

КП2 (торцом)

КСВU

1. Polarization of received signals:
* linear horizontal when receiving by plane and tip of the device oriented to the source of emission vertically by the device’s axis (see pic. 1) and horizontally by its plane;
* linear vertical when receiving by plane and tip of the device oriented to the source of emission horizontally by the device’s axis and vertically by its plane;
1. Maximum power in the radiation mode – not more than 2 W
2. Dimensions - 160x140x9 mm
3. Weight – mot more than 100 g

**Module of transmission ratio, dB (calibrated)**

VSWR **(calibrate)**

Frequency, MHz

TR 1 (by plane)

TR 2 (by tip)

VSWR

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VSWR **(calibrate)**

Frequency, MHz

TR 1 (by plane)

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Frequency, MHz

TR 1 (by plane)

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VSWR