

[Home](#) | [Antennas](#) | [Accessories](#) | [Facilities](#) | [Other](#) | [Contact](#)



Single Element VDB ANTENNA, ELLIPTICALLY POLARIZED

The single element dBs 100 VDB antenna is an elliptically polarized, VHF data broadcast antenna. It exhibits an omni-directional azimuth pattern and a shaped vertical pattern which is similar to a dipole.

The elliptical polarization provides 4 dB more gain in the horizontal plane than the vertical plane.

The single element VDB antenna is small and light weight. It lends itself to mobile applications.

The single element VDB antenna provides VHF data uplink service for all appropriately equipped aircraft within an approximate 20 nmi (or greater) radius of the LAAS ground station.

It is specifically designed to operate with VDB transmit signals operating from 108 to 118 MHz.

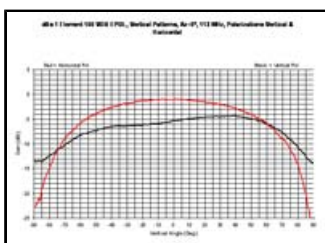
Peak power handling capability for the dBs 100 is > 250 Watts CW. The main lobe gain is ³ -1.0 dBi for the Horizontally Polarized Component and ³ -5.0 dBi for the Vertically Polarized Component.

Type N female coaxial receptacles are used for all RF interfaces. RF input is 50 Ω nominal and VSWR is less than 2.0:1.

[Back](#) | [Specifications](#)

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Vertical Pattern