

HVA PRECISION HIGH VOLTAGE DIVIDER

- STABILITY < 0.005% / YEAR
- RATIO ACCURACY < 0.01%
- < 0.05% RATIO AT 60 HZ
- LOW TEMPERATURE COEFFICIENT



The HVA AC/DC Voltage Divider is designed as a calibration standard for DC and AC voltages. The HVA is highly immune from changes in temperature and humidity. Its unique toroidal shielding renders proximity effects negligible. No appreciable capacitance is produced by the shield structure, and the unit is estimated to be at least 99.9% resistive.

The resistors forming the core of the HVA are individually wound and characterized to assure the highest quality. Careful selection and processing of these resistors yields a ratio temperature coefficient of less than five ppm per degree C (<0.000 5%).

The DC output impedance of the HVA is 1000 ohms; the AC output is 1001.0101 ohms, which is shunted to 1000 ohms when used with a one megohm (input impedance) thermal converter.

Standard models are listed, but custom or special ranges can be supplied. For example, a common optional configuration is an output other than 1V, or a dual output of 10V/1V. Extended range models (above 150KV) can be manufactured by stacking central columns and by using specially modified intermediate shielding toroids.

A specially fitted shipping container is available, and is recommended for customers who will be regularly transporting their standard to national labs for recertification.

Calibration and repair service is offered to high voltage dividers by all manufacturers.

Standard Model	Input in KV	Output 1	Output 2
HVA-50	50	1 VDC	1 VAC
HVA-100	100	1 VDC	1 VAC
HVA-150	150	1.5 VDC	1.5 VAC

For special values, use the below format:

Model	Input	Output 1	Output 2
HVA-(A)-(B)-(C)	(A)	(B)	(C)

To order the Shipping Container, please specify:

HVA-CASE

