



QUANTUM TECHNOLOGY, INC.

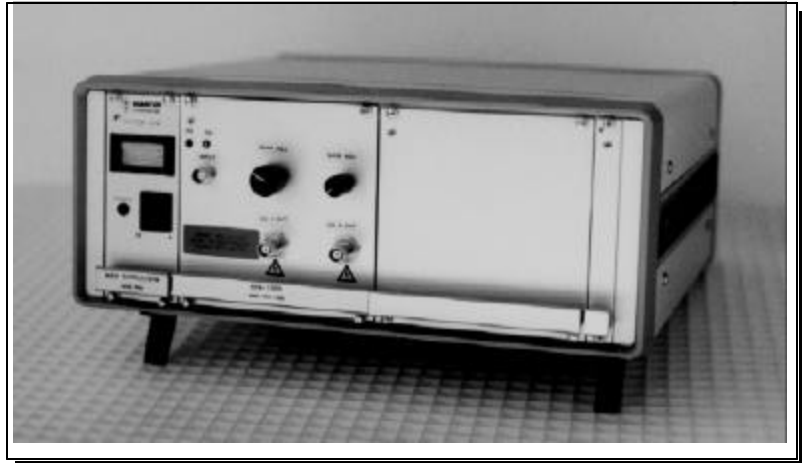
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MODEL HVA-100K HV AMPLIFIER DATA SHEET 750

MODEL HVA-100K HV AMPLIFIER

FEATURES:

- w High stability
- w E- O modulator applications
- w 400 Vpp @ 250 KHz
- w 800 Vpp @ 100 KHz
- w 1600 Vpp output



MODEL HVA-100K:

Model HVA-100K High Voltage Amplifier series is useful for driving electro-optic Modulators, Pockels cells, Deflectors or Piezoelectric Positioners or Actuators. The driver exhibits high gain, ultrasonic frequency response, DC coupled outputs, good stability and can produce an output of +/-800 Vpp (1600 Vpp) differential drive into a 100 pF capacity load. The front panel gain control easily adjusts the output to cover a wide range of voltages. The output offset is adjustable and is normally set at the factory for AC input and output voltages. Optionally, it can easily be set up for unipolar full swing output. A digital display of the DC bias is provided for easy readout. The input impedance is 1 kilohm.

SPECIFICATIONS:

Specifications	Model HVA-100K-1	Model HVA-100K-2
OUT1 output voltage	50-850 Vpk single ended, 800Vpp	+/- 400 Vpk double ended, +800Vpp
OUT2 output voltage	50-800 V bias @ 20 meg-ohm source	-/+ 400 Vpk double ended, -800Vpp
AC input sensitivity	+/- 1 Vpp for full output	+/- 1 Vpp for full output
Gain	58 dB	64 dB
Gain adjustment range	0-40 dB	0-40 dB
Linearity typical	10 bits	10 bits
Bandwidth @ full output	DC-100 KHz @ 100 pF load	DC-100 KHz @ 100 pF load
Rise / fall time	3.5 microsec (@ full 800 V output)	3.5 microsec (@ full 1600 V output)
Output impedance	10 Kohm source, 10 W	10 Kohm source, 10 W
Connectors	2 MHV for Output 1 & 2	2 MHV for Output 1 & 2
AC power requirements	100, 115, 220 VAC, 200 W	100, 115, 220 VAC, 200 W
Cabinet size	14.3 x 5.75 x 14.3 cu in.	14.3 x 5.75 x 14.3 cu in.