



QUANTUM TECHNOLOGY, INC.

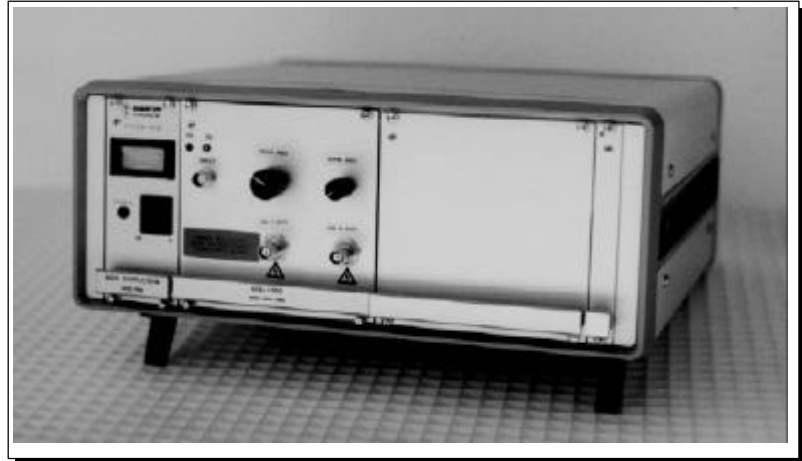
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**MODEL HVA-200K
HV AMPLIFIER
DATA SHEET 768**

MODEL HVA-200K HV AMPLIFIER

FEATURES:

- High stability
- E- O modulator applications
- 400 Vpp @ 200 KHz
- 500+ Vpp @ 200 KHz - option 5



MODEL HVA-200K:

Model HVA-200K 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 +/-400 Vpp or 500+ Vpp with option 5 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 kilo-ohm.

AMPLIFIER SPECIFICATIONS:

| <i>Specifications</i> | Model HVA-200K | Model HVA-200K-5 (OPTION) |
|--------------------------------|-----------------------------|----------------------------------|
| OUTPUT voltage | +/- 400 Vpp single ended | +/- 500+ Vpp single ended |
| AC input sensitivity | +/- 0.5 Vpp for full output | +/- 0.5 Vpp for full output |
| Gain adjustment range | 0-40 dB | 0-40 dB |
| Linearity typical | < 2% | < 2% |
| Bandwidth @ full output | DC-200 KHz @ 100 pF load | DC-200 KHz @ 100 pF load |
| Rise / fall times | 700 nsec typical | 700 nsec typical |
| Connectors | MHV Output , BNC Input | MHV Output , BNC Input |
| 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. |