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# technical data

## GEC 7226 VIDICON

TENTATIVE DATA

Type GEC 7226 is a short-length vidicon with a 150MA heater intended for use in transistorized camera equipment where space is restricted and where heat dissipation must be kept at a minimum. The high sensitivity and low lag of this tube make it primarily suited for live pick-up. The GEC particle shield permits operation of the tube in any position.

### DATA



#### GENERAL:

|                                                                                                                                            |           |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Operating Position                                                                                                                         | Any       |
| Focusing Method                                                                                                                            | Magnetic  |
| Deflection Method                                                                                                                          | Magnetic  |
| Max. Useful Diagonal of Rectangular Image<br>(4 x 3 Aspect Ratio)                                                                          | 0.625 in. |
| Orientation of Image... Horizontal Scan should<br>be essentially parallel to a plane passing<br>through tube axis and the short index pin. |           |

#### ELECTRICAL CHARACTERISTICS:

|                                                                              |                   |
|------------------------------------------------------------------------------|-------------------|
| Heater (for Unipotential Cathode)                                            |                   |
| Voltage (AC or DC)                                                           | 6.3 V $\pm 10\%$  |
| Current                                                                      | 0.15 A $\pm 10\%$ |
| Direct Interelectrode Capacity<br>(Signal Electrode to all other Electrodes) | 3.1 uuf           |

#### ABSOLUTE MAXIMUM RATINGS:

|                                         |       |
|-----------------------------------------|-------|
| Anode Voltage                           | 350 V |
| Grid No. 2 Voltage                      | 750 V |
| Grid No. 1 Voltage                      |       |
| Negative Bias Values                    | 125 V |
| Positive Bias Values                    | 0 V   |
| Heater - Cathode Peak Values            |       |
| Heater Negative with Respect to Cathode | 125 V |
| Heater Positive with Respect to Cathode | 10 V  |

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ELECTRONIC TUBE DIVISION  
GENERAL ELECTRODYNAMICS CORPORATION, GARLAND, TEXAS

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ABSOLUTE MAXIMUM RATINGS, Continued:

|                          |           |
|--------------------------|-----------|
| Faceplate                |           |
| Illumination             | 1000 ft-c |
| Temperature              | 71° C.    |
| Signal Electrode Current | .60 uA    |

TYPICAL OPERATION:

|                                                                                                                                                             |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Scanned Area                                                                                                                                                | 0.500 x 0.375" |
| Faceplate Temperature                                                                                                                                       | 30° to 35° C.  |
| Optimum Signal-Output Current<br>(Signal Electrode Current minus Dark Current)<br>For uniform 2870° K Tungsten illumination on<br>faceplate down to .5 ft-c | .2 uA          |
| For uniform 2870° K Tungsten illumination on<br>faceplate from .2 ft-c to .5 ft-c                                                                           | .14 to .2 uA   |
| Signal Electrode Voltage<br>For 5 ft-c faceplate illumination and signal-<br>output current of .2 uA                                                        | 10 to 50 V     |
| For .2 ft-c faceplate illumination and signal-<br>output current of .14 uA                                                                                  | 40 to 100 V    |
| Average Gamma of Transfer Characteristic<br>over Signal-Output Current operating range<br>of .05 to .2 uA                                                   | .55            |
| Anode Voltage                                                                                                                                               | 200 to 300 V   |
| Grid No. 2 Voltage                                                                                                                                          | 300 V          |
| Grid No. 1 Voltage (For picture cut-off with<br>no blanking voltage on Grid No. 1)                                                                          | -45 to -100 V  |
| Minimum Peak-to-Peak Blanking Voltage<br>When applied to Grid No. 1                                                                                         | 30 V           |
| When applied to Cathode                                                                                                                                     | 10 V           |
| Magnetic Field Intensity at Center of Focusing Device                                                                                                       | 40 gauss       |
| Magnetic Field Intensity of Adjustable Alignment Coil                                                                                                       | 0 to 4 gauss   |

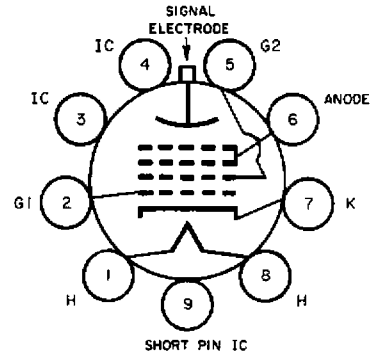
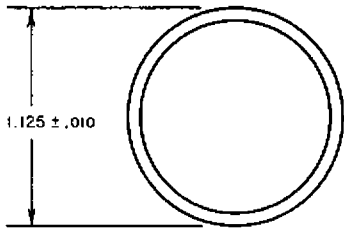


FIG. 1

- PIN 1: HEATER
- PIN 2: GRID No. 1
- PIN 3: INTERNAL CONNECTION--DO NOT USE
- PIN 4: INTERNAL CONNECTION--DO NOT USE
- PIN 5: GRID No. 2
- PIN 6: ANODE
- PIN 7: CATHODE
- PIN 8: HEATER
- FLANGE: SIGNAL ELECTRODE
- SHORT INDEX PIN: INTERNAL CONNECTION--DO NOT USE

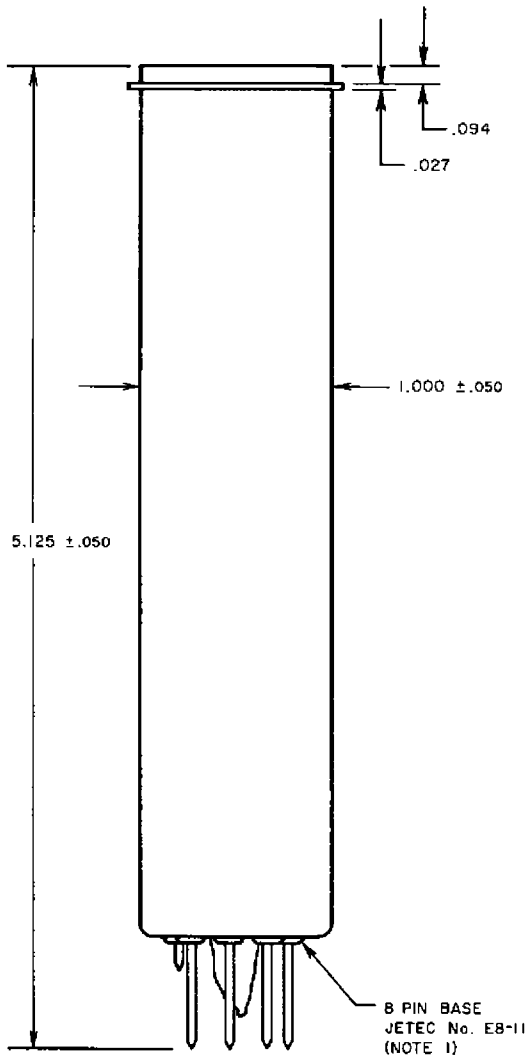


FIG. 2

NOTES

1. Base-pin positions fit 0.25 inch thick, 10-hole flat-plate gage with holes located as follows: 9 holes, 0.0550 (±0.0005) inch diameter equally spaced, 0.2052 (±0.0005) inch apart on a circle, 0.6000 (±0.0005) inch diameter, plus a center hole, 0.300 (±0.001) in. diameter, concentric with 9-hole circle.
2. All dimensions are shown in inches.