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:**

<table>
<thead>
<tr>
<th>Operating Position</th>
<th>Any</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focusing Method</td>
<td>Magnetic</td>
</tr>
<tr>
<td>Deflection Method</td>
<td>Magnetic</td>
</tr>
</tbody>
</table>

Max. Useful Diagonal of Rectangular Image

(4 x 3 Aspect Ratio) 0.625 in.

Orientation of Image...Horizontal Scan should be essentially parallel to a plane passing through tube axis and the short index pin.

**ELECTRICAL CHARACTERISTICS:**

Heater (for Unipotential Cathode)

Voltage (AC or DC) 6.3 V ±10%

Current 0.15 A ±10%

Direct Interelectrode Capacity (Signal Electrode to all other Electrodes) 3.1 uuf

**ABSOLUTE MAXIMUM RATINGS:**

<table>
<thead>
<tr>
<th>Anode Voltage</th>
<th>350 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid No. 2 Voltage</td>
<td>750 V</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grid No. 1 Voltage</th>
<th>Negative Bias Values</th>
<th>125 V</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Positive Bias Values</td>
<td>0 V</td>
</tr>
</tbody>
</table>

Heater - Cathode Peak Values

Heater Negative with Respect to Cathode 125 V

Heater Positive with Respect to Cathode 10 V

from JETEC release #2302, Oct. 27, 1958
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  
  (Signal Electrode Current minus Dark Current)
  For uniform 2870° K Tungsten illumination on
  faceplate down to .5 ft-c  .2 uA
  For uniform 2870° K Tungsten illumination on
  faceplate from .2 ft-c to .5 ft-C  .14 to .2 uA

Signal Electrode Voltage
  For 5 ft-c faceplate illumination and signal-
  output current of .2 uA  10 to 50 V
  For .2 ft-c faceplate illumination and signal-
  output current of .14 uA  40 to 100 V

Average Gamma of Transfer Characteristic
  over Signal-Output Current operating range
  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
  no blanking voltage on Grid No. 1)  -45 to -100 V

Minimum Peak-to-Peak Blanking Voltage
  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

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.