

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 (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 $\pm 10\%$
Current	0.15 A $\pm 10\%$
Direct Interelectrode Capacity (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



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

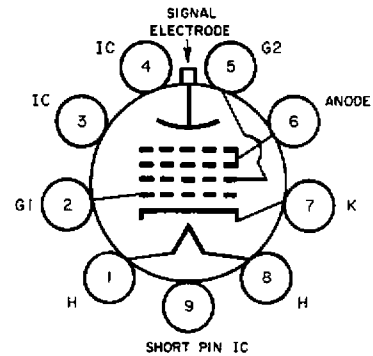
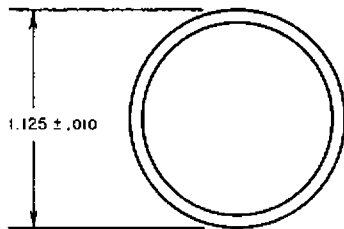


FIG. 1

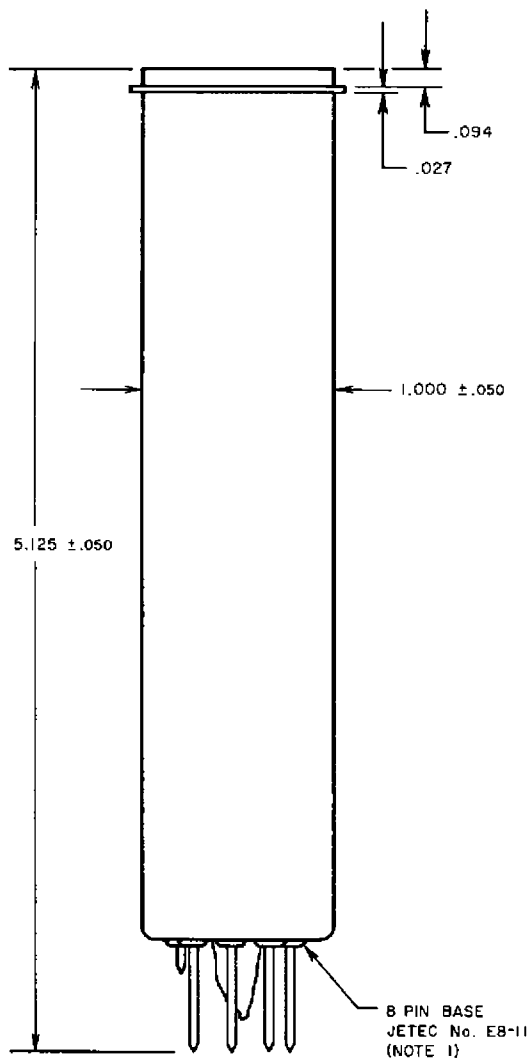


FIG. 2

- 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.