

TYPICAL OPERATION AND PERFORMANCE DATA

*For scanned area of 0.192 in x 0.256 in
Faceplate Temperature of 25° to 30° C*

For All Types

Grid-No. 6 (Decelerator) & Grid-No.3 Voltage	750 V			
Grid-No.5 Voltage	250 to 315 V			
Grid-No.4 (Beam-Focus Electrode) Voltage.	100 to 125 V			
Grid-No.2 (Accelerator) Voltage	100 to 300 V			
Grid-No.1 Voltage	-20 V			
	4493 (Red)	4494 (Green)	4495 (Blue)	
Illumination ^e	4.5	4.5	4.0	fc
Signal Output Current ^f	0.060	0.060	0.020	μA
Signal-to-Dark Current Ratio ^f	6:1	6.1	4:1	
Typical Resolution: ^f				
Center	500	500	500	TV lines
Corner	400	400	400	TV lines
Amplitude Response to a 125 TV Line Square- Wave Test Pattern at Center of Picture ^f	60	60	60	%
Average "Gamma" of Transfer Characteristic ^f	0.65	0.65	0.65	
Lag - Per Cent of Initial Value of Signal-Output Current 1/20 Second after Illumination is Removed ^f	12	12	10	%

^aThis capacitance, which effectively is the output impedance of the tube, is increased when the tube is mounted in the deflecting-yoke assembly. The resistive component of the output impedance is in order of 100 megohms.

^cThe maximum voltage difference between grids No.6 & 3 and No.5 should not exceed 750 volts.

^dVideo amplifiers must be designed properly to handle peak target currents of this magnitude to avoid amplifier overload or picture distortion.

^eUnder the following conditions: The light source is a tungsten-filament lamp having a lime-glass envelope. It is operated at a color temperature of 3100° K. These illumination values are incident on the filters shown in (f) which are interposed between the light source and tube faceplate.

^fThese characteristics are measured using the following standard optical filters, or equivalent:

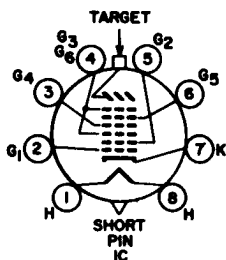
For type 4493 (Red) - Wratten No.25 (A) with
2 Fish-Shurman No. IR650

For type 4494 (Green) - Wratten No.58 with 1
Fish-Shurman No. IR650

For type 4495 (Blue) - Wratten No.47 with 1
Fish-Shurman No. IR650

BASING DIAGRAM (Bottom View)

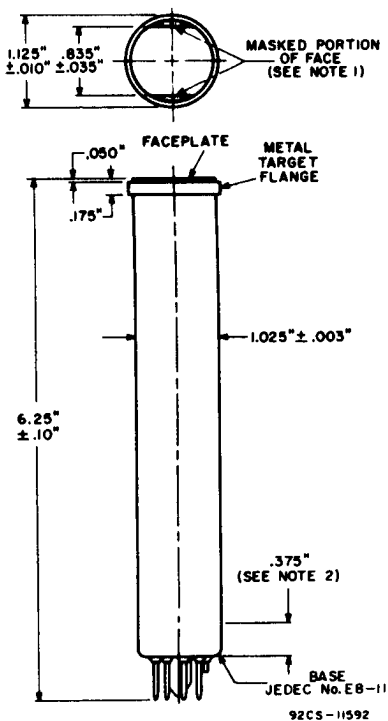
- Pin 1 - Heater
- Pin 2 - Grid No.1
- Pin 3 - Grid No.4
- Pin 4 - Grids No.3
& No.6
- Pin 5 - Grid No.2
- Pin 6 - Grid No.5
- Pin 7 - Cathode
- Pin 8 - Heater
- Flange -Target
- Short Index Pin -
Internal
Connection--
Make No Connection



DIRECTION OF LIGHT:
INTO FACE END OF TUBE

8LN

DIMENSIONAL OUTLINE



Note 1: Straight Sides Of Masked Portions Are Parallel To The Plane Passing Through Tube Axis And Short Index Pin.

Note 2: Within This Distance, Diameter Of Bulb Is $1.025'' + 0.003'' - 0.030''$