

Picture Tube

Pan-o-Ply Type Low-Voltage Electrostatic Focus
114° Magnetic Deflection Low Grid-No.2 Voltage

Direct Interelectrode Capacitances:

Cathode to all other electrodes	5	pF
Grid No.1 to all other electrodes	6	pF
External conductive coating to anode ^a	{ 2000 max. 1400 min.	{ pF pF

Heater Current at 6.3 volts 450 ± 20 mA

Heater Warm-Up Time (Average) 11 seconds

Electron Gun Type Requiring No Ion-Trap Magnet

Focus Lens Unipotential

Phosphor P4-Sulfide Type, Aluminized

Faceplate Filterglass

Light Transmission at Center (Approx.) 44%

Weight (Approx.) 16.5 lb

Overall length 12.269" ± .250"

Neck length 4.375" ± .125"

Projected Area of Screen 184 sq. in.

Cap Designation Recessed Small Cavity
 (JEDEC No.J1-21)

Base Designation Small-Button Neoeightar 7-Pin,
 Arrangement 1, (JEDEC No.B7-208)

TERMINAL DIAGRAM (Bottom View)

Pin 1: Heater

Pin 2: Grid No.1

Pin 3: Grid No.2

Pin 4: Grid No.4

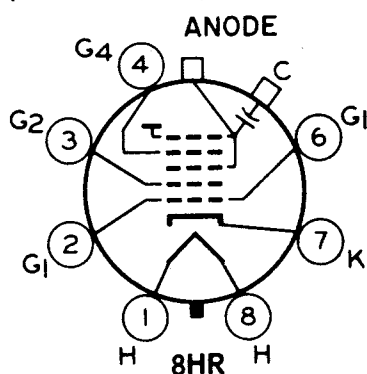
Pin 6: Grid No.1

Pin 7: Cathode

Pin 8: Heater

Cap: Anode (Grid No.3,
 Grid No.5, Screen,
 Collector)

C: External Conductive
 Coating

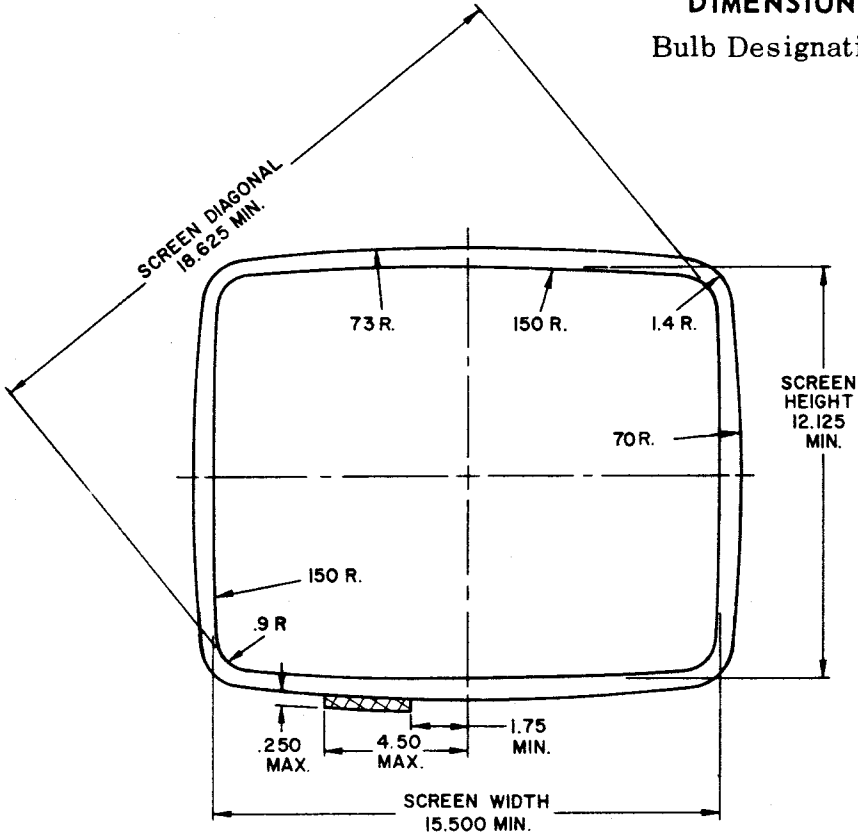


MAXIMUM AND MINIMUM RATINGS, DESIGN-MAXIMUM VALUES

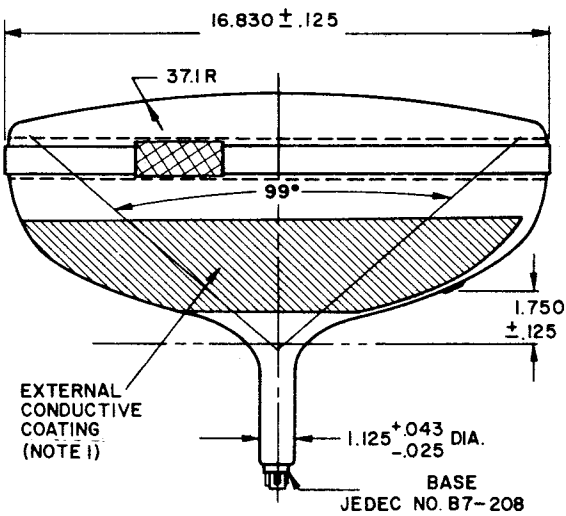
*Unless otherwise specified, voltage values
 are positive with respect to grid No.1*

Anode Voltage	{ 23,000 max. 11,000 min.	{ V V
Grid-No.4 Voltage:		
Positive value	1250 max.	V
Negative value	400 max.	V

DIMENSIONAL
Bulb Designation

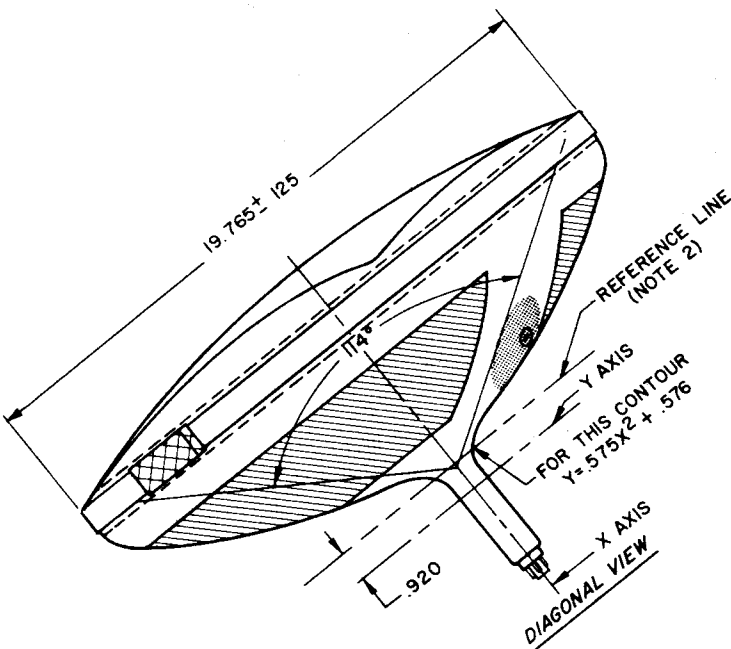
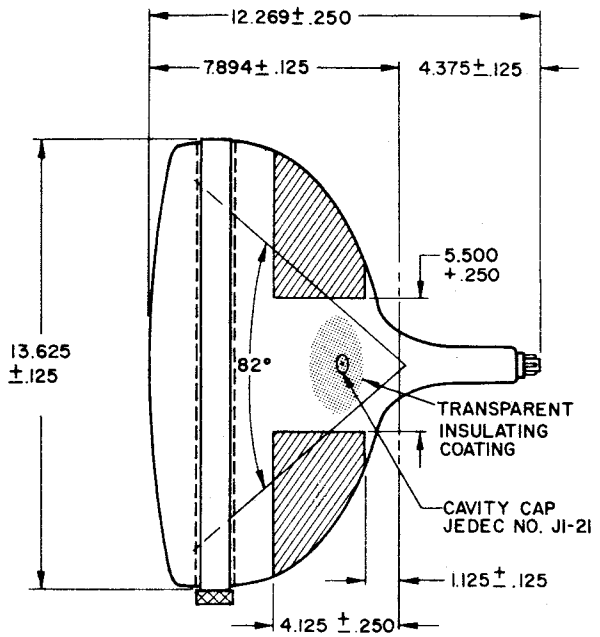


⊠ KEEP THIS SPACE CLEAR OF ANY MECHANICAL OBSTRUCTION



OUTLINE

JEDEC NO. J157-1/2 A1



DIMENSIONS IN INCHES

92LL-1914R1

Note 1: External conductive coating and implosion protection hardware must be grounded.

Note 2: Determined by Gauge JEDEC No. G-126.

MAXIMUM AND MINIMUM RATINGS (CONT'D)

Grid-No.2 Voltage	{ 60 max.	V
	{ 20 min.	V
Cathode Voltage:		
Negative peak value	2 max.	V
Negative bias value.	0 max.	V
Positive bias value.	100 max.	V
Positive peak value	150 max.	V
Heater Voltage	{ 6.9 max.	V
	{ 5.7 min.	V
Peak Heater-Cathode Voltage:		
Heater negative with respect to cathode:		
During equipment warm-up period not exceeding 15 seconds		
	450 max.	V
After equipment warm-up period		
	300 max.	V
Heater positive with respect to cathode:		
Combined AC & DC voltage.	200 max.	V
DC Component	100 max.	V

TYPICAL OPERATING CONDITIONS FOR CATHODE-DRIVE SERVICE

Unless otherwise specified, voltage values are positive with respect to grid No.1

Anode Voltage	16,000	V
Grid-No.4 Voltage ^b	100	V
Grid-No.2 Voltage	30	V
Cathode Voltage for visual extinction of focused raster		
	22 to 40	V
Field Strength of required adjustable Centering Magnet		
	0 to 8	G

MAXIMUM CIRCUIT VALUE

Grid-No.1 Circuit Resistance	1.5 max.	MΩ
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^aIncludes implosion protection hardware.

^bThe grid-No.4 voltage required for optimum focus of any individual tube will have a value anywhere between -100 and +300 volts with the combined grid-No.1 voltage and video-signal voltage adjusted to give an anode current of 100 microamperes on a 11.25-inch by 15-inch pattern from an RCA-2F21 monoscope, or equivalent.

See X-RADIATION PRECAUTIONS at front of this section