

sponsor:
General Electric Co.

RMA Release No. 380
June 15, 1944

CATHODE-RAY TUBE

Type 9LP7

PHYSICAL CHARACTERISTICS

Focusing Method		Magnetic
Deflecting Method		Magnetic
Maximum Solid Deflecting Angle		55 Degrees
Phosphor		P7
Direct Interelectrode Capacitance		
	<u>Min</u>	<u>Max</u>
Cathode to all other electrodes	2.5	8.5 uuf
Grid No. 1 to all other electrodes	8	15 uuf
Grid No. 2 to all other electrodes	6	13 uuf
Over-all Length	14 $\frac{31}{32}$ + $\frac{11}{32}$ Inches	
Greatest Diameter of Bulb	$\frac{9}{8}$ + $\frac{1}{8}$ Inches	
Minimum Useable Screen Diameter	8 1/2 Inches	
Base	Wafer Octal 8-Pin, Sleeve	
Basing	RMA Designation - 5AN	
Bulb Contact	Medium Metal Cap	
Spot Center*	18 mm Radius	

MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

	<u>Typical Operation</u>				<u>Maximum Ratings</u>	
Heater Voltage ∇ a-c				6.3		Volts
Heater Current				0.6		Amperes
High Voltage Electrode	4000	4000	7000	7000	7700	Volts
Grid No. 1 (Control Electrode) Voltage	-80 \pm 25% §	-40 \pm 25% §	-80 \pm 25% §	-40 \pm 25% §	Never Positive	
Grid No. 2 (Accelerating Electrode) Voltage	250	125	250	125	330	Volts
Grid No. 2 Current	500	500	500	500		ua
Grid Circuit Resistance					1.5	Megohms
D-c Heater-cathode Potential #					-125	Volts

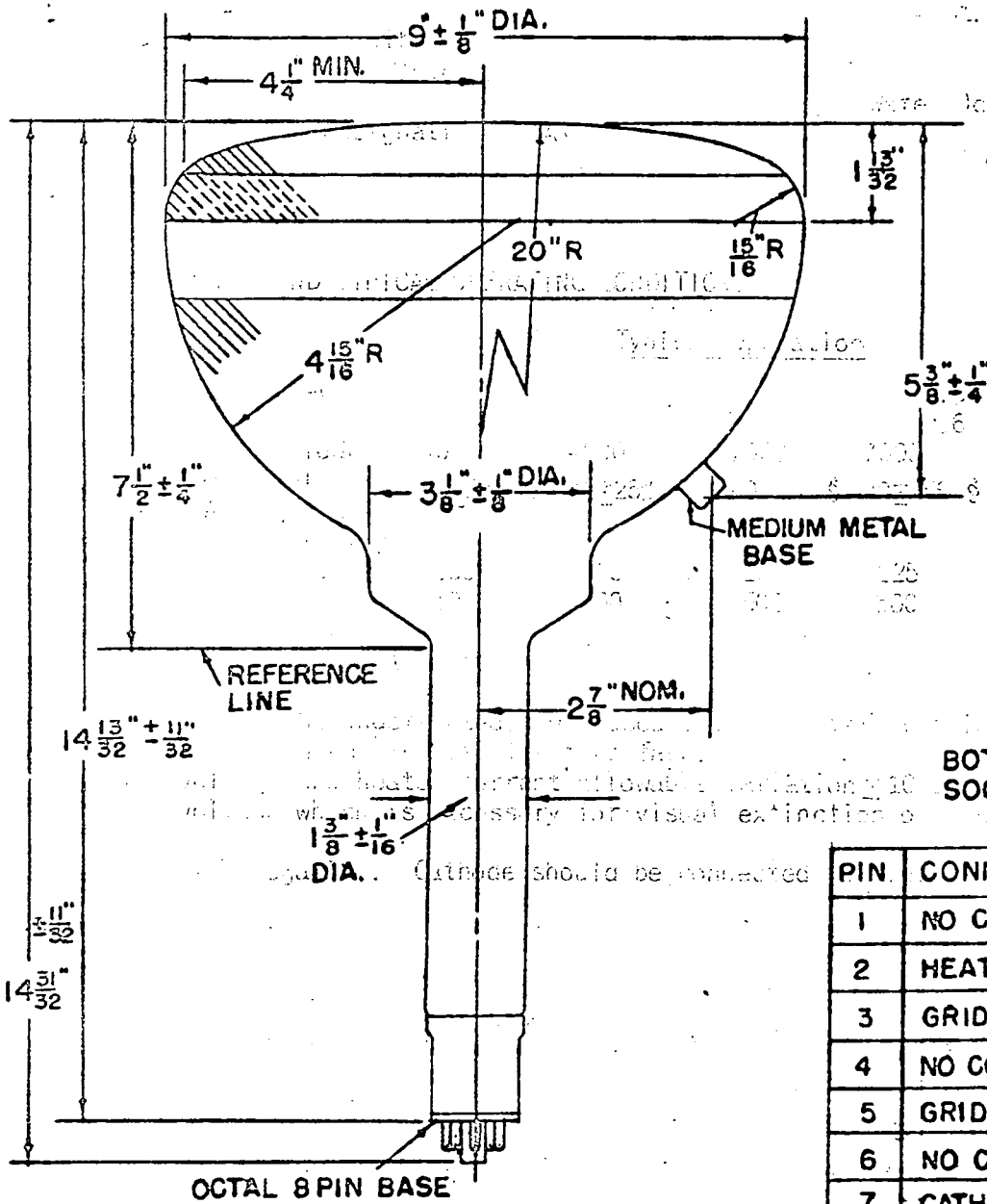
* The center of the undeflected, unfocused spot will fall within a circle of the given radius concentric with the tube face.

∇ Heater voltage and heater current allowable variation \pm 10%.

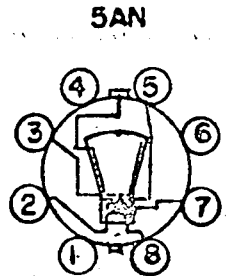
§ Cutoff voltage which is necessary for visual extinction of a stationary focused spot.

With heater negative. Cathode should be connected to midtap or one side of heater supply.

Release No. 380
 June 15, 1944

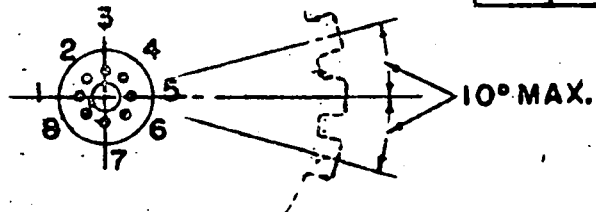


NOTE: REFERENCE LINE IS DETERMINED BY A POINT WHERE A GAUGE 1.430 ± 0.005 " DIA. AND 2" LONG WILL STOP AGAINST BULB BODY



BOTTOM VIEW OF SOCKET CONNECTION

PIN	CONNECTIONS
1	NO CONNECTION
2	HEATER
3	GRID*2
4	NO CONNECTION
5	GRID*1
6	NO CONNECTION
7	CATHODE
8	HEATER



OUTLINE
 9LP7 CATHODE-RAY TUBE