

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 31/32 + 11/32 Inches
Greatest Diameter of Bulb	9 + 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 $\nless a-c$				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.

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

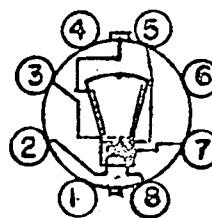
§ Cutoff voltage which is necessary for visual extinction of a stationary focused spot.

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

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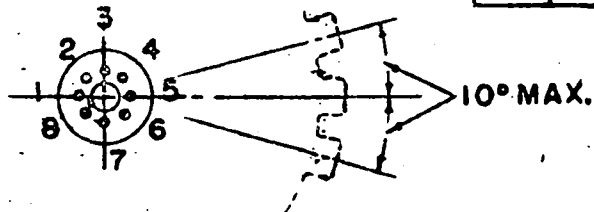
NOTE: REFERENCE LINE IS
DETERMINED BY A POINT
WHERE A GAUGE 1.430" $\pm$.005"
DIA. AND 2" LONG WILL
STOP AGAINST BULB BODY

5AN



**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.

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