

sponsor:  
General Electric Co.

RMA Release No. 380

June 15, 1944

CATHODE-RAY TUBE

Type 9GP7

PHYSICAL CHARACTERISTICS

|                                    |                        |                     |            |
|------------------------------------|------------------------|---------------------|------------|
| Focusing Method                    |                        |                     | Magnetic   |
| Deflecting Method                  |                        |                     | Magnetic   |
| Maximum Solid Deflecting Angle     |                        |                     | 55°        |
| Phosphor                           |                        |                     | P7         |
| Direct Electrode Capacitances      |                        |                     |            |
|                                    |                        | <u>Min</u>          | <u>Max</u> |
| Cathode to all other electrodes    |                        | 6                   | 11 uuf     |
| Grid No. 1 to all other electrodes |                        | 3                   | 10 uuf     |
| Grid No. 2 to all other electrodes |                        | 3                   | 12 uuf     |
| Overall Length                     |                        | 17 ± 1 Inches       |            |
| Greatest Diameter of Bulb          |                        | 9 ± 1/8 Inches      |            |
| Minimum Useable Screen Diameter    |                        | 7 3/4 Inches        |            |
| Base                               |                        | Octal-8-Pin, Sleeve |            |
| Basing                             | RMA Designation - 5 AN |                     |            |
| Bulb Contact                       |                        | Medium Metal ICap   |            |
| Spot Center                        |                        | 20 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        |                        | Amp     |
| High Voltage Electrode                      | 4000                     | 7000       | 7700                   | Volts   |
| Grid No. 1 (Control Electrode) Voltage      | -45*                     | -45 ± 50%* | Never Positive         |         |
| Grid No. 2 (Accelerating Electrode) Voltage | 250                      | 250        | 330                    | Volts   |
| Grid No. 2 Current                          | 100                      | 100        |                        | ua      |
| D-c Heater-Cathode Potential #              |                          |            | -125                   | Volts   |
| Grid Circuit Resistance                     |                          |            | 1.5                    | Megohms |

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

§ Heater voltage and heater current allowable variation ± 10%.

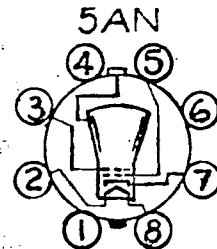
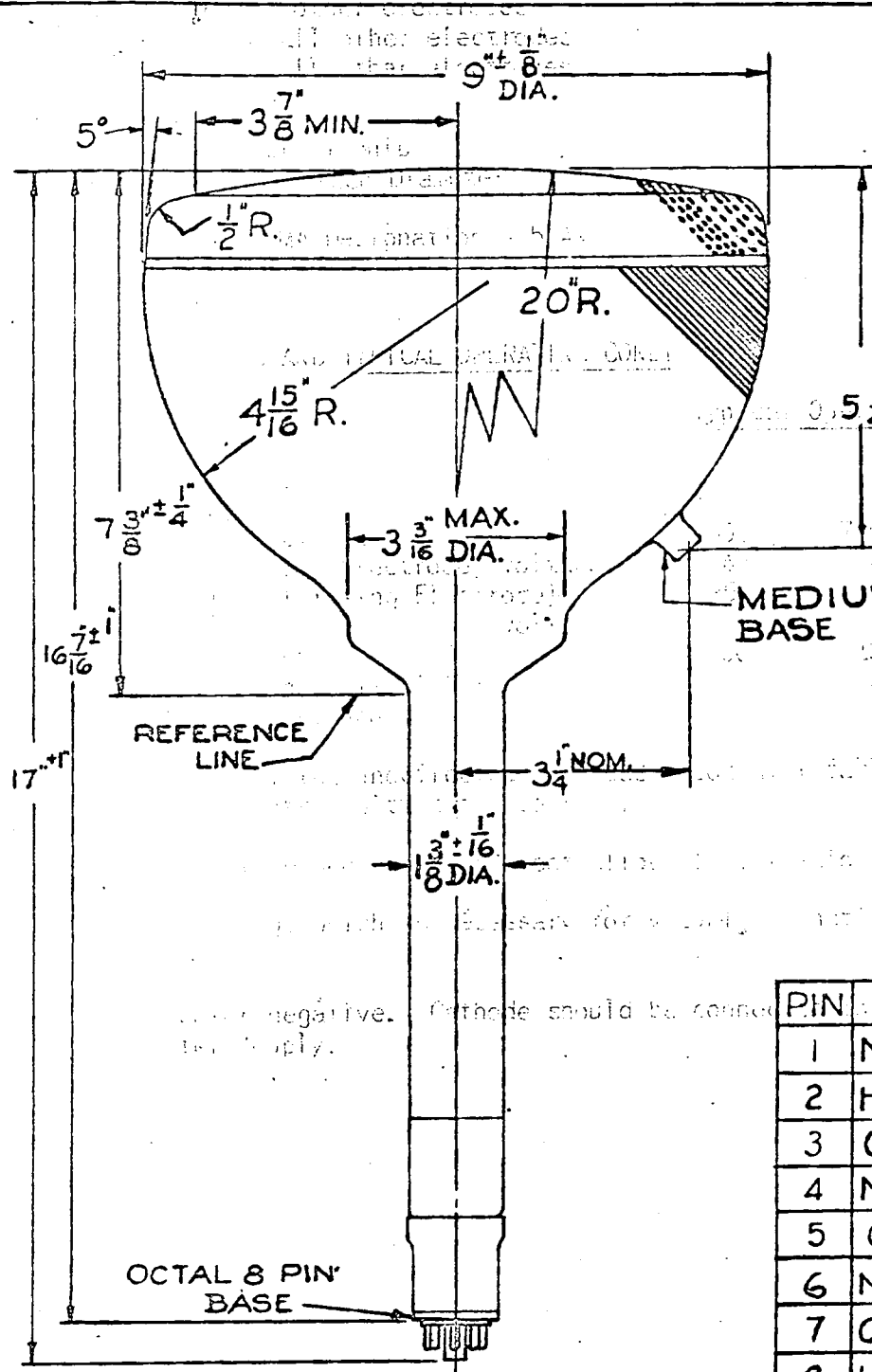
\* Cutoff voltage which is necessary for visual extinction of a stationary focused spot.

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

Release No. 380  
June 15, 1944

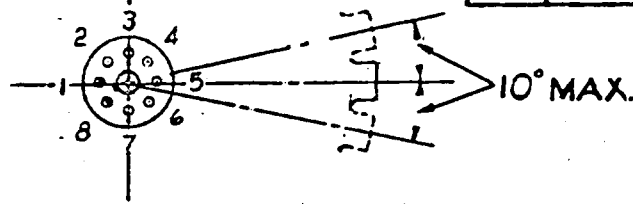
NOTE:

REFERENCE LINE IS DETERMINED BY A POINT WHERE GAUGE 1.430" ± .003" DIA. AND 2" LONG WILL STOP AGAINST BULB BODY.



BASING DIAGRAM

| PIN | CONNECTION    |
|-----|---------------|
| 1   | NO CONNECTION |
| 2   | HEATER        |
| 3   | GRID #2       |
| 4   | NO CONNECTION |
| 5   | GRID #1       |
| 6   | NO CONNECTION |
| 7   | CATHODE       |
| 8   | HEATER        |



OUTLINE  
9GP7 CATHODE-RAY TUBE