



6AF6-G

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## ELECTRON-RAY TUBE

TWIN-INDICATOR TYPE

|         |                             |                  |
|---------|-----------------------------|------------------|
| Heater  | Coated Unipotential Cathode |                  |
| Voltage | 6.3                         | a-c or d-c volts |
| Current | 0.15                        | amp.             |

|                |        |          |   |
|----------------|--------|----------|---|
| Overall Length | 2-1/4" | { +1/16" | ← |
|                |        | { -1/4"  |   |

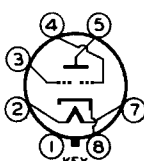
|               |          |          |   |
|---------------|----------|----------|---|
| Seated Height | 1-11/16" | { +1/16" | ← |
|               |          | { -1/4"  |   |

|                  |         |
|------------------|---------|
| Maximum Diameter | 1-5/16" |
|------------------|---------|

|      |     |
|------|-----|
| Bulb | T-9 |
|------|-----|

|      |                           |
|------|---------------------------|
| Base | Intermed. Sh. Octal 7-Pin |
|------|---------------------------|

|                       |                       |
|-----------------------|-----------------------|
| Pin 1 - No Connection | Pin 4 - Ray-Control   |
| Pin 2 - Heater        | Electrode, Unit No. 1 |
| Pin 3 - Ray-Control   | Pin 5 - Target        |
| Electrode, Unit No. 2 | Pin 7 - Heater        |
|                       | Pin 8 - Cathode       |



|                   |                   |       |
|-------------------|-------------------|-------|
| Mounting Position | BOTTOM VIEW (7AG) | Any** |
|-------------------|-------------------|-------|

Maximum and Minimum Ratings Are Design-Center Values

## INDICATOR SERVICE

|                |            |       |   |
|----------------|------------|-------|---|
| Target Voltage | { 250 max. | volts | ← |
|                | { 125 min. | volts | ← |

|                                      |          |       |   |
|--------------------------------------|----------|-------|---|
| Ray-Control Electrode Supply Voltage | 250 max. | volts | ← |
|--------------------------------------|----------|-------|---|

|                              |         |       |   |
|------------------------------|---------|-------|---|
| D-C Heater-Cathode Potential | 90 max. | volts | ← |
|------------------------------|---------|-------|---|

## Typical Operation:

|                                                  |      |     |               |
|--------------------------------------------------|------|-----|---------------|
| Target Voltage                                   | 125  | 250 | volts         |
| Series Resistor $\square$                        | 0.5  | 1.0 | megohm        |
| Target Current*                                  | 0.65 | 2.2 | ma.           |
| Ray-Control Electrode Voltage $\uparrow$         | 80   | 160 | approx. volts |
| Ray-Control Electrode Voltage $\uparrow\uparrow$ | 0    | 0   | approx. volts |

\*\* The plane of the ray-control electrodes passes through pins No. 3 and No. 7.

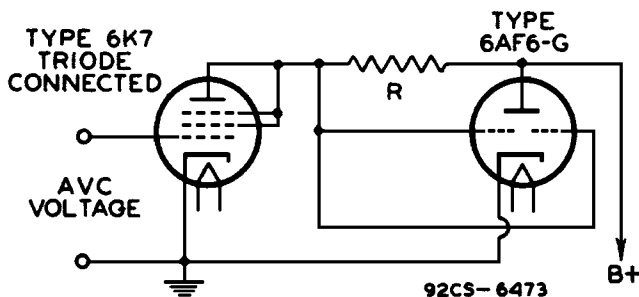
$\square$  Designated R in circuit diagram below.

\* With 0 volts on ray-control electrodes. Subject to wide variations.

$\uparrow$  For shadow angle of  $0^\circ$  produced by either ray-control electrode.

$\uparrow\uparrow$  For shadow angle of  $95^\circ$  produced by either ray-control electrode.

## TYPICAL CIRCUIT USING TYPE 6AF6-G WITH RAY-CONTROL ELECTRODES IN PARALLEL



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← Indicates a change.

DEC. 15, 1944

RCA VICTOR DIVISION  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA

6AF6-G

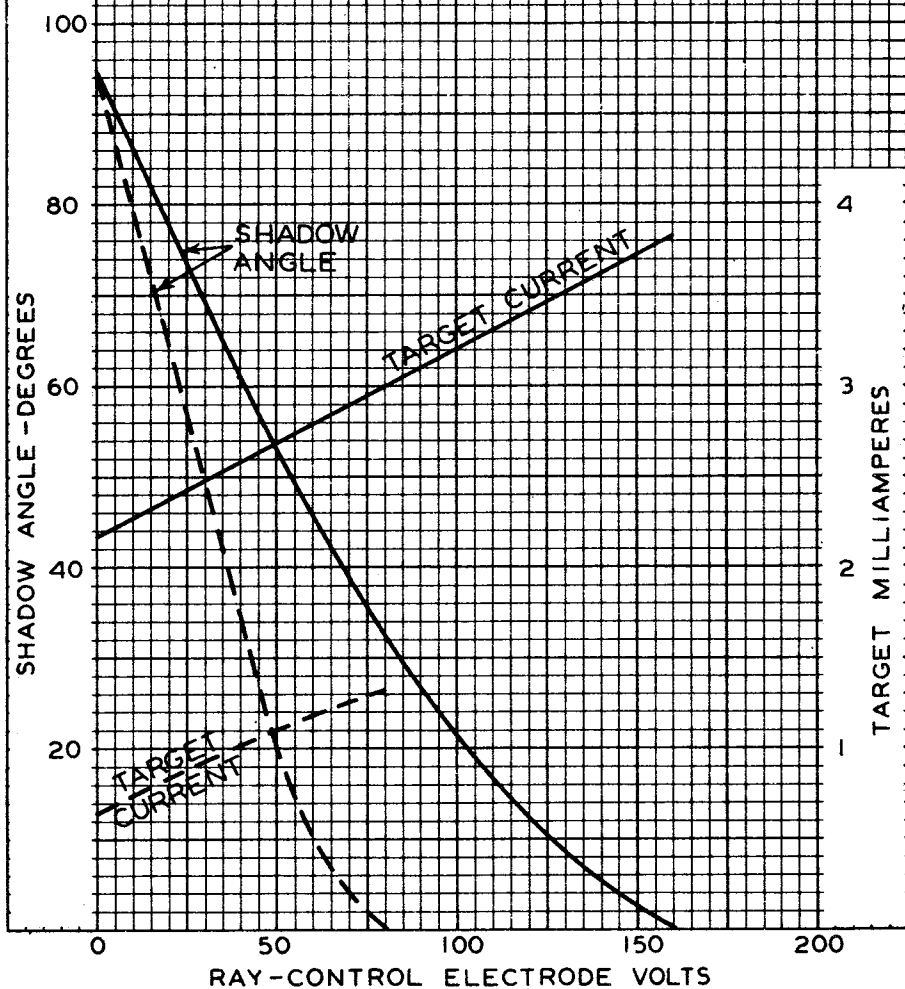


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# AVERAGE CHARACTERISTICS

$E_f = 6.3$  VOLTS

| CURVE | TARGET VOLTS |
|-------|--------------|
| —     | 250          |
| - - - | 125          |



SEPT. 25, 1944

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