

ELECTRONIC TUBE REFERENCE

6GF7

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA  
2 SECTIONS  
CONSTRUCTION  
TRIODE-TRIODE

Dual triode intended for television vertical-deflection service, combining oscillator/driver and power-output functions where applicable. Manufacturer data emphasize vertical-sweep operation, pulse-voltage capability, and the stronger section's current and dissipation requirements.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 9QD               | BASE PINS            | 9             |
| NOMINAL HEATER      | 6.3 V / 985 mA    | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Dissimilar    |

9QD - TERMINAL PINOUT

| TERMINAL | SECTION | ELEMENT           | STATUS    |
|----------|---------|-------------------|-----------|
| PIN1     | A       | K – Cathode       | CONNECTED |
| PIN2     | –       | –                 | UNKNOWN   |
| PIN3     | B       | K – Cathode       | CONNECTED |
| PIN4     | –       | H – Heater        | CONNECTED |
| PIN5     | –       | H – Heater        | CONNECTED |
| PIN6     | B       | P – Plate (Anode) | CONNECTED |
| PIN8     | A       | P – Plate (Anode) | CONNECTED |
| PIN9     | –       | –                 | UNKNOWN   |

SECTION RATINGS

| SECTION1 Triode                                                                                                                                   |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| PLATE RESISTANCE                                                                                                                                  | 17000 $\Omega$ |
| TRANSCONDUCTANCE                                                                                                                                  | 0.0027 S       |
| AMPLIFICATION FACTOR                                                                                                                              | 46             |
| MAXIMUM PLATE VOLTAGE                                                                                                                             | 250 V          |
| MAXIMUM PLATE DISSIPATION                                                                                                                         | 2 W            |
| <i>Published ratings and characteristics promoted where clearly stated; identical repeated diode/triode sections compressed where applicable.</i> |                |

| SECTION2 Triode                                                                                                                                   |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| PLATE RESISTANCE                                                                                                                                  | 2300 $\Omega$ |
| TRANSCONDUCTANCE                                                                                                                                  | 0.007 S       |
| AMPLIFICATION FACTOR                                                                                                                              | 6.4           |
| MAXIMUM PLATE VOLTAGE                                                                                                                             | 150 V         |
| MAXIMUM PLATE DISSIPATION                                                                                                                         | 11 W          |
| <i>Published ratings and characteristics promoted where clearly stated; identical repeated diode/triode sections compressed where applicable.</i> |               |

Dissimilar dual triode for combined television vertical-deflection oscillator and vertical-deflection amplifier service.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1940 RCA

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1940 RCA

## Section 1 · Triode

| CHARACTERISTICS      |                 |                                    |
|----------------------|-----------------|------------------------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE                   |
| Heater voltage       | 6.3 V           | Published nominal value            |
| Heater current       | 985 mA          | Published nominal value            |
| Transconductance     | 2700 $\mu$ S    | Published operating characteristic |
| Amplification factor | 46              | Published operating characteristic |

| OTHER                     |                                              |                                            |
|---------------------------|----------------------------------------------|--------------------------------------------|
| PARAMETER                 | PUBLISHED VALUE                              | CONDITION / NOTE                           |
| Maximum plate dissipation | 2 W                                          | Published maximum or stated design maximum |
| Application               | Vertical-deflection oscillator and amplifier | Television                                 |

1940 RCA

## Section 2 · Triode

| CHARACTERISTICS      |                 |                                    |
|----------------------|-----------------|------------------------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE                   |
| Heater voltage       | 6.3 V           | Published nominal value            |
| Heater current       | 985 mA          | Published nominal value            |
| Transconductance     | 7000 $\mu$ S    | Published operating characteristic |
| Amplification factor | 6.4             | Published operating characteristic |

| OTHER                     |                 |                                            |
|---------------------------|-----------------|--------------------------------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE                           |
| Maximum plate dissipation | 11 W            | Published maximum or stated design maximum |

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