



## ELECTRONIC TUBE REFERENCE

707

Voltage Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

HEPTODE

Receiver oscillator-converter combining local oscillation and signal mixing for superheterodyne frequency conversion. Its multi-grid structure integrates the front-end frequency-changing functions in one envelope.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 8AL               | BASE PINS            | 8             |
| NOMINAL HEATER      | 6.3 V / 300 mA    | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                   |                  |
|-----------------------------------------------------------------------------------|------------------|
| SECTION 1 Heptode                                                                 |                  |
| PLATE RESISTANCE                                                                  | 1000000 $\Omega$ |
| TRANSCONDUCTANCE                                                                  | 0.00055 S        |
| MAXIMUM PLATE VOLTAGE                                                             | 300 V            |
| MAXIMUM SCREEN VOLTAGE                                                            | 100 V            |
| Published handbook ratings and representative operating characteristics reviewed. |                  |

707 is listed/represented in the supplied handbook batch as a pentagrid converter (printed designation OCRs as 7Q7/707).

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 195X General Electric Essential Characteristics

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

## 195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

## Section 1 · Heptode

| OTHER                  |                 |                           |
|------------------------|-----------------|---------------------------|
| PARAMETER              | PUBLISHED VALUE | CONDITION / NOTE          |
| Maximum plate voltage  | 300 V           | Published handbook rating |
| Maximum screen voltage | 100 V           | Published handbook rating |
| Plate voltage          | 250 V           | ClassA                    |
| Screen voltage         | 100 V           | ClassA                    |
| Control-grid bias      | 2 V             | ClassA                    |
| Plate current          | 3.5 mA          | ClassA                    |
| Screen current         | 8.5 mA          | ClassA                    |

| CHARACTERISTIC   |                 |                                   |
|------------------|-----------------|-----------------------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE                  |
| Plate resistance | 1000000 ohm     | Published handbook characteristic |
| Transconductance | 550 $\mu$ S     | Published handbook characteristic |
| Heater voltage   | 6.3 V           | Published heater rating           |
| Heater current   | 300 mA          | Published heater rating           |