

ELECTRONIC TUBE REFERENCE

PL136

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
PENTODE

Power pentode designed for 110-degree television horizontal line time-base output service.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 9             |
| NOMINAL HEATER      | 35 V / 300 mA     | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                                                 |        |
|-------------------------------------------------------------------------------------------------|--------|
| SECTION1 Pentode                                                                                |        |
| TRANSCONDUCTANCE                                                                                | 0.02 S |
| MAXIMUM PLATE VOLTAGE                                                                           | 250 V  |
| MAXIMUM SCREEN VOLTAGE                                                                          | 250 V  |
| MAXIMUM PLATE DISSIPATION                                                                       | 16 W   |
| MAXIMUM SCREEN DISSIPATION                                                                      | 4.5 W  |
| MAXIMUM CATHODE CURRENT                                                                         | 300 mA |
| Pentode section; promoted values are taken from the approved source where explicitly published. |        |

Power pentode for 110-degree television horizontal line time-base output service.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1953 La Radiotechnique

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

## 1953 LA RADIOTECHNIQUE

## Section 1 · Pentode

| CHARACTERISTIC                          |                 |                  |
|-----------------------------------------|-----------------|------------------|
| PARAMETER                               | PUBLISHED VALUE | CONDITION / NOTE |
| Indirect (cathode isolee du filament)   | 300 mA          | Pentode          |
| Alimentation du filament en serie. ( vi | 35 V            | Pentode          |
| Courant de chauffage                    | 300 mA          | Pentode          |
| Plate voltage                           | 70 V            | Pentode          |
| Screen-grid voltage                     | 170 V           | Pentode          |
| Control-grid voltage                    | 8.5 V           | Pentode          |
| Plate current                           | 450 mA          | Pentode          |
| 00s lIgg                                | 50 mA           | Pentode          |
| 450 mA a Va min                         | 170 V           | Pentode          |
| Plate voltage de crete                  | 7500 V          | Pentode          |
| Screen-grid voltage                     | 210 V           | Pentode          |
| Cathode current                         | 40 uA           | Pentode          |
| Tension de la grille 4                  | 160 V           | Pentode          |
| Tension d'alimentation                  | 240 V           | Pentode          |
| Tres haute tension                      | 145 kV          | Pentode          |
| Cathode current                         | 160 MA          | Pentode          |
| Screen-grid current                     | 14 mA           | Pentode          |
| Plate current de crete                  | 386 mA          | Pentode          |
| dant le balayage                        | 60 mA           | Pentode          |
| Plate dissipation                       | 7 W             | Pentode          |
| Screen-grid dissipation                 | 2.6 W           | Pentode          |

| PARAMETER       | PUBLISHED VALUE | CONDITION / NOTE |
|-----------------|-----------------|------------------|
| (avec C 100 nF) | 47 kohm         | Pentode          |

| OTHER                                   |                 |                  |
|-----------------------------------------|-----------------|------------------|
| PARAMETER                               | PUBLISHED VALUE | CONDITION / NOTE |
| Plate voltage                           | -100 V          | Pentode          |
| Screen-grid voltage                     | 100 V           | Pentode          |
| Control-grid voltage                    | 8 V             | Pentode          |
| Plate current                           | 150 mA          | Pentode          |
| Screen-grid current                     | 6 mA            | Pentode          |
| Transconductance                        | 20 mA/V         | Pentode          |
| Plate voltage                           | 250 V           | Pentode          |
| 000006 Vap                              | 7500 V          | Pentode          |
| 00ec es Vap                             | 1500 V          | Pentode          |
| Screen-grid voltage                     | 250 V           | Pentode          |
| Puissance dissipee<br>surl'anode. Pa    | 16 W            | Pentode          |
| Puissance dissipee<br>surlagrille2 Pgze | 45 W            | Pentode          |
| Tension negative de la<br>grille1       | 300 V           | Pentode          |
| Cathode current                         | 300 mA          | Pentode          |
| es Rgz min (4 15 18 22 kQ               | 22 kohm         | Pentode          |
| pour Vbg 200 220 240 V                  | 240 V           | Pentode          |
| (4   (4 A Rg1                           | 4 A             | Pentode          |
| (5) Rgl                                 | 2.2 Mohm        | Pentode          |

| CAPACITANCE                              |                 |                  |
|------------------------------------------|-----------------|------------------|
| PARAMETER                                | PUBLISHED VALUE | CONDITION / NOTE |
| Plate capacitance                        | 11 pF           | Pentode          |
| Capacite entre l'anode et la<br>grille 1 | 1.5 pF          | Pentode          |