

ELECTRONIC TUBE REFERENCE

400A

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

HEPTODE

Western Electric heptode for multi-grid signal-processing and frequency-conversion service. Its electrode structure permits oscillator, mixer, or controlled-amplifier functions within one conventional receiving tube.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 7             |
| NOMINAL HEATER      | 6.3 V / 200 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                                                                                          |       |
|------------------------------------------------------------------------------------------------------------------------------------------|-------|
| SECTION1 Heptode                                                                                                                         |       |
| MAXIMUM PLATE VOLTAGE                                                                                                                    | 135 V |
| MAXIMUM SCREEN VOLTAGE                                                                                                                   | 135 V |
| MAXIMUM CATHODE CURRENT                                                                                                                  | 7 mA  |
| Promoted fields mapped from printed maximum-rating and characteristic headings; additional published values preserved in parameter rows. |       |

Miniature pentagrid converter for frequency-conversion service.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 2026 Western Electric 400s

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

2026 WESTERN ELECTRIC 400S

## Section 1 · Heptode

| CHARACTERISTIC                                                               |                         |                                                                                               |
|------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------|
| PARAMETER                                                                    | PUBLISHED VALUE         | CONDITION / NOTE                                                                              |
| e biasesi asesasruncansar st                                                 | <b>136 volts</b>        | e biasesi asesasruncansar st 136 volts                                                        |
| Cathode Current<br>..c.viinvnnonrense rm it<br>eenserasesnns ceriraenenatans | <b>7 milliamperes</b>   | Cathode Current ..c.viinvnnonrense rm it<br>eenserasesnns ceriraenenatans . 7<br>milliamperes |
| Filament Current .....<br>ehrrauarrecesennus e<br>areassassesersaannans      | <b>200 milliamperes</b> | Filament Current ..... ehrrauarrecesennus e<br>areassassesersaannans 200 milliamperes         |
| Cathode Current<br>.ivceivansesosrsnaasnnannans<br>Chsrresasatnrassanaere    | <b>2.7 milliamperes</b> | Cathode Current<br>.ivceivansesosrsnaasnnannans<br>Chsrresasatnrassanaere 2.7 milliamperes    |
| Conversion Transconductante<br>...veesrcecsncsn<br>verreerasana rerasseunn   | <b>230 micromhos</b>    | Conversion Transconductante<br>...veesrcecsncsn verreerasana rerasseunn 230<br>micromhos      |

## TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,  
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker