



## ELECTRONIC TUBE REFERENCE

## DC160

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Philips directly heated high-vacuum full-wave rectifier for high-voltage power supplies. Rated for approximately 2.8 kV peak inverse voltage and 75 mA rectified DC output from a heavy 22 V filament.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 22 V / 4 A        | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                 |        |
|---------------------------------------------------------------------------------|--------|
| SECTION1 Rectifier                                                              |        |
| PEAK INVERSE VOLTAGE                                                            | 2800 V |
| NOMINAL OUTPUT CURRENT                                                          | 75 mA  |
| Rectifier section; ratings and characteristics extracted from source datasheet. |        |

|                                                                                                       |        |
|-------------------------------------------------------------------------------------------------------|--------|
| SECTION2 Rectifier                                                                                    |        |
| PEAK INVERSE VOLTAGE                                                                                  | 2800 V |
| NOMINAL OUTPUT CURRENT                                                                                | 75 mA  |
| Second physical rectifier section; electrical properties populated from applicable published ratings. |        |

Philips directly heated high-vacuum rectifier intended for full-wave power-supply service. The datasheet provides heater requirements, permissible transformer/anode voltages, rectified-current data, and rectifier operating characteristics.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1999 Philips 0-D

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

1999 PHILIPS 0-D

## Section 1 · Rectifier

| CHARACTERISTIC                                              |                 |                               |
|-------------------------------------------------------------|-----------------|-------------------------------|
| PARAMETER                                                   | PUBLISHED VALUE | CONDITION / NOTE              |
| d'un condensateur de filtrage de                            | 4 uF            | Published datasheet condition |
| Le DC 1/60 est destiné a être em-   ne doit pas dépasser    | 75 mA           | Published datasheet condition |
| Tension de chauffage ..... Vi                               | 22 V            | Published datasheet condition |
| oC %U Courant de chauffage ..... I                          | 4 A             | Published datasheet condition |
| Tension continue .....oeuveuun.. V                          | 1000 V          | Published datasheet condition |
| 7200\ ~—= 2X1000y Courant redressé (valeur moyenne) .... I, | 75 mA           | Published datasheet condition |
| \\\\ 'éf =2 X                                               | 900 v           | Published datasheet condition |
| 400 T T Longueur totale ..... 0                             | 185 mm          | Published datasheet condition |
| Die DC 1/60 hat die gleichen Daten Abflachkondensators von  | 4 pF            | Published datasheet condition |
| die Rohre in der normalen Schaltung (Vo) von                | 1150 V          | Published datasheet condition |
| ! ] 19005z                                                  | 755725 v        | Published datasheet condition |
| ! ] 19005z 755725 veo , ' Heizspannung . . . . . eV         | 22 V            | Published datasheet condition |
| t ' Heizstrom . . . . . e e v v oo Iy                       | 4 A             | Published datasheet condition |

| PARAMETER                                                  | PUBLISHED VALUE | CONDITION / NOTE              |
|------------------------------------------------------------|-----------------|-------------------------------|
| , 1600 o L . ,<br>Sättigungsstrom . . . . . R<br>== ca. 2% | 500 mA          | Published datasheet condition |
| ] - Innerer Widerstand . . .<br>. . . . . R                | 500 Ω           | Published datasheet condition |
| Published value                                            | 100 A           | Published datasheet condition |

| OTHER                                                               |                 |                               |
|---------------------------------------------------------------------|-----------------|-------------------------------|
| PARAMETER                                                           | PUBLISHED VALUE | CONDITION / NOTE              |
| 1800 Tension anodique<br>altern. efficace max... V,;<br>= 2 X       | 1000 V          | Published datasheet condition |
| Diamètre maximum<br>..... d                                         | 50 mm           | Published datasheet condition |
| Diese<br>Zweiweggleichrichterrohre                                  | 2800 V          | Published datasheet condition |
| Diese<br>Zweiweggleichrichterrohre<br>2800 V:2 712                  | 1000 V          | Published datasheet condition |
| Der höchstzulässige Wert<br>der Anoden- selspannung (V;)<br>von 2 x | 1000 V          | Published datasheet condition |
| Scheitelwert der<br>höchstzulässigen gleichstrom<br>( ) von         | 75 mA           | Published datasheet condition |
| spannung . . . . . v v<br>v« Vinp                                   | 2800 V          | Published datasheet condition |
| SS , Maximale Gesamtlänge .<br>. . . . .1                           | 175 mm          | Published datasheet condition |
| L , i T v   Maximaler<br>Durchmesser . . . . . d                    | 63.5 mm         | Published datasheet condition |

1999 PHILIPS 0-D

## Section 2 · Rectifier

| CHARACTERISTIC                                                 |                 |                               |
|----------------------------------------------------------------|-----------------|-------------------------------|
| PARAMETER                                                      | PUBLISHED VALUE | CONDITION / NOTE              |
| d'un condensateur de<br>filtrage de                            | 4 uF            | Published datasheet condition |
| Le DC 1/60 est destiné a<br>être em-   ne doit pas<br>dépasser | 75 mA           | Published datasheet condition |

| PARAMETER                                                         | PUBLISHED VALUE | CONDITION / NOTE              |
|-------------------------------------------------------------------|-----------------|-------------------------------|
| Tension de chauffage<br>..... Vi                                  | 22 V            | Published datasheet condition |
| oC %U Courant de chauffage<br>..... I                             | 4 A             | Published datasheet condition |
| Tension continue<br>.....oeuveuun.. V                             | 1000 V          | Published datasheet condition |
| 7200\ ~—= 2X1000y Courant<br>redressé (valeur moyenne)<br>.... I, | 75 mA           | Published datasheet condition |
| \\\\ 'éf =2 X                                                     | 900 v           | Published datasheet condition |
| 400 T T Longueur totale<br>..... 0                                | 185 mm          | Published datasheet condition |
| Die DC 1/60 hat die gleichen<br>Daten Abflachkondensators<br>von  | 4 pF            | Published datasheet condition |
| die Rohre in der normalen<br>Schaltung (Vo) von                   | 1150 V          | Published datasheet condition |
| ! ] 19005z                                                        | 755725 v        | Published datasheet condition |
| ! ] 19005z 755725 veo , '<br>Heizspannung . . . . .<br>eV         | 22 V            | Published datasheet condition |
| t ' Heizstrom . . . . . e e<br>v v oo Iy                          | 4 A             | Published datasheet condition |
| , 1600 o L . ,<br>Sättigungsstrom . . . . . R<br>== ca. 2%        | 500 mA          | Published datasheet condition |
| ] - Innerer Widerstand . . .<br>. . . . . R                       | 500 Ω           | Published datasheet condition |
| Published value                                                   | 100 A           | Published datasheet condition |

| OTHER                                                         |                 |                               |
|---------------------------------------------------------------|-----------------|-------------------------------|
| PARAMETER                                                     | PUBLISHED VALUE | CONDITION / NOTE              |
| 1800 Tension anodique<br>altern. efficace max... V,;<br>= 2 X | 1000 V          | Published datasheet condition |
| Diamètre maximum<br>..... d                                   | 50 mm           | Published datasheet condition |
| Diese<br>Zweiweggleichrichterrohre                            | 2800 V          | Published datasheet condition |
|                                                               |                 |                               |

| PARAMETER                                                           | PUBLISHED VALUE | CONDITION / NOTE              |
|---------------------------------------------------------------------|-----------------|-------------------------------|
| Diese<br>Zweiweggleichrichterrohre<br>2800 V:2 712                  | <b>1000 V</b>   | Published datasheet condition |
| Der hochstzulassige Wert<br>der Anoden- selspannung (V;)<br>von 2 x | <b>1000 V</b>   | Published datasheet condition |
| Scheitelwert der<br>hochstzulassigen gleichstrom<br>( ) von         | <b>75 mA</b>    | Published datasheet condition |
| spannung . . . . . v v<br>v« V <sub>inp</sub>                       | <b>2800 V</b>   | Published datasheet condition |
| SS , Maximale Gesamtlänge .<br>. . . . .1                           | <b>175 mm</b>   | Published datasheet condition |
| L , i T v   Maximaler<br>Durchmesser . . . . . d                    | <b>63.5 mm</b>  | Published datasheet condition |

## TUBE TINKER

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