



ELECTRONIC TUBE REFERENCE

E182CC

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Special-quality high-current double triode for computer circuits, designed to retain cathode emission after long periods under cutoff conditions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Noval	BASE PINS	—
NOMINAL HEATER	12.6 V / 400 mA	PARALLEL HEATER	6.3 V / 800 mA
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	15500 Ω
TRANSCONDUCTANCE	0.015 S
AMPLIFICATION FACTOR	24
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	4.5 W
MAXIMUM CATHODE CURRENT	60 mA
<i>Special-quality double triode; identical triode sections are compressed to one representative electrical section.</i>	

SECTION2 Triode	
PLATE RESISTANCE	15500 Ω
TRANSCONDUCTANCE	0.015 S
AMPLIFICATION FACTOR	24
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	4.5 W
MAXIMUM CATHODE CURRENT	60 mA
<i>Second physical triode section; electrically identical twin section.</i>	

Special-quality double triode for computer circuits, designed to retain emission after long periods under cutoff conditions.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	330 V	Published table
Plate current	60 mA	Published table
Maximum cathode current	120 mA	SpecialQuality
Maximum grid current	36 mA	SpecialQuality

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	15500 ohm	Published table
Amplification factor	24	Published table
Heater/filament voltage	6.3 V	Published rating
Heater/filament current	800 mA	Published rating
Series heater voltage	12.6 V	SeriesHeater
Series heater current	400 mA	SeriesHeater



SOURCE OPERATING CONDITIONS

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1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published rating
Heater current	800 mA	Published rating
Series heater voltage	12.6 V	SeriesHeater
Series heater current	400 mA	SeriesHeater
Published characteristic value	6.7	PremiumQuality

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	PremiumQuality
Maximum plate current	60 mA	PremiumQuality



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1963 Philips Electron Tubes Handbook V1a

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V1A

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	120 V	EachUnit
Plate current	36 mA	EachUnit
Grid voltage	-2 V	EachUnit

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	15000 uS	EachUnit
Amplification factor	24	EachUnit

SOURCE OPERATING CONDITIONS

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1963 Philips Electron Tubes Handbook V3

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1963 PHILIPS ELECTRON TUBES HANDBOOK V3

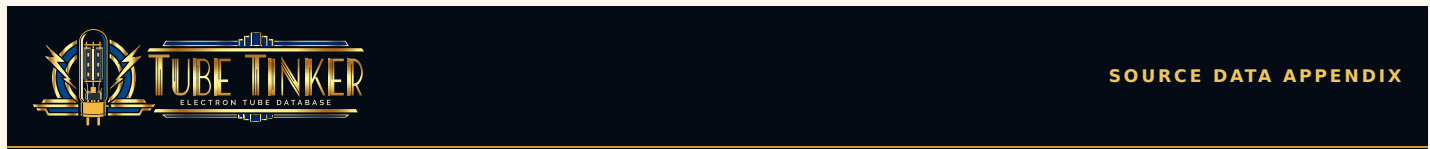
Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	640 mA	If = 640 320 mA
Cathode-heater voltage	200 V	Vkf = 200 1 I V
Cathode-heater voltage	120 V	Vkf = 120 V(k neg)

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate capacitance	1 pF	Ca = 1 .1 0.75-1.45 pF Ca'g' = 4.1 3.4-4.8 pF
Grid capacitance	6 pF	Cg = 6.0 5.3- 6.7 pF Ck'f = 4.0 pF
Grid-to-plate capacitance	4 pF	Cag = 4.0 3.4- 4.6 pF Cam' = 0.6 < 0.8 pF
Cathode-heater capacitance	4 pF	Ckf = 4.0 pF Cgg' _ < 0.15 pF
Heater voltage	6.3 V	Vf = 6.3 1 V
Heater current	640 mA	If = 640 j 605-6751 mA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	120 V	Va=120 V Va = 90 V
Plate current	36 mA	Ia = 36 L26-45 mA Ia = 41-62 24 mA
Transconductance	15 mA/V	S = 15 1 mA/V
Plate voltage	120 V	Va = 120 I V
Amplification factor	24	μ = 24 1
Cathode resistor	55 ohm	Rk = 55 R
Plate voltage	150 V	Va = 150 V S = 15 11.2-18.8 i 8 mA/V
Transconductance	15 mA/V	Va = 150 V S = 15 11.2-18.8 i 8 mA/V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	120 V	Va 120 I V
Transconductance	1 mA/V	') Timp = max. 10 µsec; S = 1
Transconductance	1 mA/V	S 1o I INTS ~



SOURCE OPERATING CONDITIONS

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1967 Mullard Receiving Tubes for Maintenance

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

1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
320	640 mA	Published in approved E182CC.pdf target datasheet; Section1
The maximum variation of heater current at 6.3V is	35 mA	Published in approved E182CC.pdf target datasheet; Section1
la	36 mA	Published in approved E182CC.pdf target datasheet; Section1
at v, = 90V, Ig = 250fLA 52 41 t o 62	24 mA	Published in approved E182CC.pdf target datasheet; Section1
at Va = nov, Vg = - 2V 36 26 to	45 mA	Published in approved E182CC.pdf target datasheet; Section1
at Va = 150V, Vg = -14V <	0.2 mA	Published in approved E182CC.pdf target datasheet; Section1
Rk = 55Q 11.2 t o 18.8	8 mA	Published in approved E182CC.pdf target datasheet; Section1
Ig max	8 mA	Published in approved E182CC.pdf target datasheet; Section1
*ig(Pk) max	200 mA	Published in approved E182CC.pdf target datasheet; Section1
I k max	60 mA	Published in approved E182CC.pdf target datasheet; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
*ik(Pk) max	400 mA	Published in approved E182CC.pdf target datasheet; Section1
Th1h max	160 °C	Published in approved E182CC.pdf target datasheet; Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ca ' - g ' 3.4 4.0	4.6 pF	Published in approved E182CC.pdf target datasheet; Section1
Ca " -g" 3.4 4.1	4.8 pF	Published in approved E182CC.pdf target datasheet; Section1
* Ci n 5.3 6.0	6.7 pF	Published in approved E182CC.pdf target datasheet; Section1
Cou t ' 0.75 1.1	1.45 pF	Published in approved E182CC.pdf target datasheet; Section1
Cout'" 0.65 1.0	1.35 pF	Published in approved E182CC.pdf target datasheet; Section1
Ca ' _g"	0.1 pF	Published in approved E182CC.pdf target datasheet; Section1
Ca " -g'	0.1 pF	Published in approved E182CC.pdf target datasheet; Section1
* Ch - k	4 pF	Published in approved E182CC.pdf target datasheet; Section1



SOURCE OPERATING CONDITIONS

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1999 Philips E-Z

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

1999 PHILIPS E-Z Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage Vi	6.3 V	Heating
Heater current If	640 mA	Heating
Anode current I	36 mA	Heating

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mutual conductance S	15 mA	Heating
Heater voltage (pin	8 A	Characteristics
Heater current It	605–675 mA	Characteristics
Heater voltage (pin	4 A	Characteristics
Heater current If	320 mA	Characteristics
cathode and heater Ikt max	15 uA	Characteristics
and heater =	200 V	Characteristics
Grid supply voltage Vbg	150 v	Life
Grid resistor Rg	62 kΩ	Life
Anode voltage Vao max	600 V	Limiting Values
Anode dissipation Wy max	4.5 W	Limiting Values
Anode dissipation (both sections) Wapa' max	8 W	Limiting Values
Grid voltage -Vg max	100 V	Limiting Values
Grid voltage, peak +VgP max	30 V	Limiting Values
Grid current Ig max	8 mA	Limiting Values
Grid peak current Igp max	200 mA	Limiting Values
Cathode current Iy max	60 mA	Limiting Values
Cathode peak current Ikp max	400 mA	Limiting Values

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage Va	120 v	Characteristics
Grid voltage -Vg	2 v	Characteristics
Anode current Iy	26–45 mA	Characteristics
Mutual conductance S	15 mA	Characteristics
Negative grid current -Ig max	0.2 uA	Characteristics
Anode voltage Va	120 A	Characteristics
Cathode resistor Rg	55 Ω	Characteristics
Anode voltage vV,	90 A	Characteristics
Anode current Ia	41–62 mA	Characteristics
Anode current Iy max	0.2 mA	Characteristics

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to cathode and heater Ca/xf	0.75–1.45 pF	Capacitances
Grid to cathode and heater Cg/kf	5.3–6.7 pF	Capacitances
Anode to grid Cag	3.4–4.6 pF	Capacitances
Cathode to heater Cxf	4 pF	Capacitances
Anode to anode other section Caa'	0.6 pF	Capacitances
Grid to grid other section Cgg' max..0.15 pF	0.15 pF	Capacitances
Anode to grid other section Cag' max	0.1 pF	Capacitances

TUBE TINKER

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and their source documents.

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