



ELECTRONIC TUBE REFERENCE

E92CC

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Special-quality long-life twin triode designed for switching, counting, and computer applications requiring dependable pulse operation and stable characteristics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	E7-1	BASE PINS	7
NOMINAL HEATER	6.3 V / 400 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	6000 Ω
TRANSCONDUCTANCE	0.006 S
AMPLIFICATION FACTOR	50
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	15 mA
Representative row for two electrically identical triode sections.	

SECTION2 Triode	
PLATE RESISTANCE	6000 Ω
TRANSCONDUCTANCE	0.006 S
AMPLIFICATION FACTOR	50
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	15 mA
<i>Second physical triode restored under current one-row-per-physical-section policy.</i>	

Special-quality double triode for computer circuits where stable characteristics and long life are required.



SOURCE OPERATING CONDITIONS

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1953 AEG

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

1953 AEG

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Plate Voltage	150 V	—
Typical Plate Current	8.5 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridPlateCapacitance	2.6 pF	—
Grid Earth Capacitance	3.5 pF	—



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1953 Amperex

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1953 AMPEREX

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Voltage	6.3 V	Published datasheet value
Heater/Filament Current	400 mA	Published datasheet value
Maximum Plate/Anode Voltage	300 V	Published datasheet value
Maximum Plate/Anode Dissipation	2 W	Published datasheet value

Characteristic		
Parameter	Published Value	Condition / Note
Transconductance	6000 μS	Published datasheet value
Amplification Factor	45	Published datasheet value


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1958 Amperex Industrial

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1958 AMPEREX INDUSTRIAL

Section 1 · Triode

Other		
Parameter	Published Value	Condition / Note
Maximum plate voltage	300 V	Published table
Plate current	15 mA	Published table

Characteristic		
Parameter	Published Value	Condition / Note
Plate resistance	6000 ohm	Published table
Amplification factor	50	Published table
Heater/filament voltage	6.3 V	Published rating
Heater/filament current	100 mA	Published rating


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1963 Amperex Condensed

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1963 AMPEREX CONDENSED

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published rating
Heater current	400 mA	Published rating
Published characteristic value	3.1	PremiumQuality
Published characteristic value 2	0.3	PremiumQuality

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	PremiumQuality
Maximum plate current	15 mA	PremiumQuality



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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

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	150 V	EachSection
Control-grid voltage	-1.7 V	EachSection
Plate current	8.5 mA	EachSection
Peak cathode current maximum	75 mA	EachSection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	6000 μ S	EachSection
Amplification factor	45	EachSection

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Life expectancy	10000 h	LifeTestConditions

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode capacitance	0.32 pF	EachSection
Grid capacitance	3.1 pF	EachSection
Grid-to-anode capacitance	2.2 pF	EachSection



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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 voltage	6.3 V	Published heater rating
Heater current	400 mA	Published heater rating
Transconductance	6000 μ S	EachTriode
Amplification factor	45	EachTriode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	150 V	EachTriode
Grid bias	-1.7 V	EachTriode
Plate current	8.5 mA	EachTriode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate capacitance	0.32 pF	EachTriode
Grid capacitance	3.1 pF	EachTriode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	2.2 pF	EachTriode



SOURCE DATA APPENDIX

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
I _h	400 mA	Published in approved E92CC.pdf target datasheet; Section1
The maximum variation of heater current at V _h = 6.3V is J	20 mA	Published in approved E92CC.pdf target datasheet; Section1
I	8.5 mA	Published in approved E92CC.pdf target datasheet; Section1
g _m	6 mA	Published in approved E92CC.pdf target datasheet; Section1
I _a (V _a = 150V, v _r = -1.7V) 8.5 4.5 to	12.5 mA	Published in approved E92CC.pdf target datasheet; Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ca N__ g" 2.2 1.8	2.6 pF	Published in approved E92CC.pdf target datasheet; Section1
* Ctll 3.1 2.2	4 pF	Published in approved E92CC.pdf target datasheet; Section1
Co ut " 0.32 0.22	0.42 pF	Published in approved E92CC.pdf target datasheet; Section1
Ca ' -g ' 2.1 1.7	2.5 pF	Published in approved E92CC.pdf target datasheet; Section1
enut ' 0.38 0.28 0.4	8 pF	Published in approved E92CC.pdf target datasheet; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ca' - a "	2 pF	Published in approved E92CC.pdf target datasheet; Section1
Cg' - g "	0.29 pF	Published in approved E92CC.pdf target datasheet; Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
I k max	15 mA	Published in approved E92CC.pdf target datasheet; Section1
ti k(llk) max	75 mA	Published in approved E92CC.pdf target datasheet; Section1
Th ll lh max	170 °C	Published in approved E92CC.pdf target datasheet; Section1



SOURCE DATA APPENDIX

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Chauffage: indirect par C.A. ou C.C. Ve =	6.37 V	Published datasheet value
Heizung : indirekt durch Wechsel- Ir =	400 mA	Published datasheet value
Ca =	-0.42 pF	Published datasheet value
cg =	4 pF	Published datasheet value
Cag =	2.6 pF	Published datasheet value
Cg' =	-0.48 pF	Published datasheet value
Ca'g' =	2.5 pF	Published datasheet value
Caa' = <	2 pF	Published datasheet value
Cgg' = <	0.29 pF	Published datasheet value
Life expectancy	0 h	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
$V_{ao} = \max$	600 V	Published datasheet value
$V_a = \max$	300 V	Published datasheet value
$W_a = \max$	2 W	Published datasheet value
$\sim V_g (T_{ay} = \max)$	100 V	Published datasheet value
$\sim V_{gp} = \max$	200 V	Published datasheet value
$V_g = \max$	0.5 V	Published datasheet value
$I_g (T_{yy} = \max)$	250 pA	Published datasheet value
$I_x (T_{gy} = \max)$	15 mA	Published datasheet value
$I_{xp} = \max$	75 mA	Published datasheet value
$V_{ir} = \max$	100 V	Published datasheet value
$V_e =$	6.3 V	Published datasheet value