



ELECTRONIC TUBE REFERENCE

E283CC

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Special-quality high-mu double triode providing two precision voltage-amplifier sections for professional equipment requiring controlled characteristics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	NOVAL	BASE PINS	9
NOMINAL HEATER	6.3 V / 330 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	62500 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	1.2 W
MAXIMUM CATHODE CURRENT	9 mA

Representative row for electrically identical repeated section.

SECTION2 Triode	
PLATE RESISTANCE	62500 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	1.2 W
MAXIMUM CATHODE CURRENT	9 mA
<i>Second physical triode section; electrically identical twin section.</i>	

E283CC is a DualTriode device. Special-quality double triode; identical triode sections are compressed to one representative electrical section.



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

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	EachUnit
Plate current	1.25 mA	EachUnit

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1600 μ S	EachUnit
Amplification factor	100	EachUnit
Plate resistance	62.5 k Ω m	EachUnit



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Siemens

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

1963 SIEMENS

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Plate Voltage	250 V	—
Typical Plate Current	1.25 mA	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 $Y_r =$	6.3 V	Heating
Heater current $I_{p=3}$	3 mA	Characteristics
VIBRATION RESISTANCE: vibrational acceleration of	2.5 g	Life
at a frequency of	50 a	Life
Input source resistance =	100 Ω	Operating Characteristics
Anode voltage in cold condition $V_{ag} = \max$	600 V	Limiting Values
Anode voltage $V_a = \max$	300 V	Limiting Values
Anode dissipation $W_a = \max$,	1.2 W	Limiting Values
Positive grid voltage $+V_g = \max$,	0.5 V	Limiting Values
case of grid current bias $R_s = \max$	25 M Ω	Limiting Values
Cathode current $I_k = \max$	9 mA	Limiting Values
output stage the maximum permissible value of $R_{yp}=135$ k Ω	135 k Ω	Limiting Values
Maximum plate voltage	600 V	Promoted published datasheet value
Maximum plate dissipation	1.2 W	Promoted published datasheet value

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
except anode $C_g = C_B =$	2 pF	Capacitances
except grid $C_a = C_{y'} =$	2 pF	Capacitances
Anode to grid $C_{ag} = C_{a'g'} =$	1.2 PF	Capacitances

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to grid of other section Cgg' <	0.01 pF	Capacitances

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage Va =	250 v	Characteristics
Cathode resistor Re =	1.6 kΩ	Characteristics
Anode current Ia =	1.1–1.4 mA	Characteristics
Mutual conductance S =	11.3–1.95 mA	Characteristics
Internal resistance Ry =	62.5 kΩ	Characteristics
Anode voltage Va =	100 v	Characteristics
Cathode resistor Ry =	2 kΩ	Characteristics
Anode current Ia =	0.5 mA	Characteristics
Mutual conductance s =	1.25 mA	Characteristics
Grid voltage -Vg = <4 v	4 v	Characteristics
Negative grid voltage -Vg = <1 v	1 v	Characteristics
and cathode Vkr =	100 v	Characteristics
Anode supply voltage Vhy =	250 v	Characteristics
Grid resistor Rg =	1 Ω	Characteristics
Hum voltage (second triode section) Vehum = <	15 uV	Characteristics
Anode supply voltage Vba =	250 v	Characteristics
Grid voltage Vg = =2 v	2 v	Characteristics
Vivritional noise output Vnoise= <	10 mV	Characteristics
should not exceed	0.5 mV	Characteristics
Plate resistance	62500 Ω	Promoted published datasheet value
Transconductance	1600 μS	Promoted published datasheet value
Amplification factor	100	Promoted published datasheet value

TUBE TINKER

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

