

ELECTRONIC TUBE REFERENCE

E82CC

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Long-life ruggedized special-quality double triode with high grid-drive capability, intended for demanding professional amplifier and control applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Noval	BASE PINS	9
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	6.3 V / 300 mA
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	7700 Ω
TRANSCONDUCTANCE	0.0022 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	22 mA
Representative row for electrically identical repeated section.	

SECTION2 Triode	
PLATE RESISTANCE	7700 Ω
TRANSCONDUCTANCE	0.0022 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	22 mA
<i>Second physical triode section; added to align rows with SectionCount.</i>	

Long-life ruggedized double triode with high grid drive capability.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Lorenz

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

1955 LORENZ

Section 1 · Triode

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Long-life construction	TRUE	—
Ruggedized construction	TRUE	—



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	10.5 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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Life	10000 h	Published datasheet value
Heater voltage V_i	2.6 V	Published datasheet value
Heater current I_r	150 mA	Published datasheet value
Anode current L	10.5 mA	Published datasheet value
Mutual conductance S	2.2 mA/V	Published datasheet value
Heater voltage, pin	5 V	Published datasheet value
Heater current I_{ϕ}	315 mA	Published datasheet value
Heater voltage, pin	12.6 V	Published datasheet value
Heater current I_f	150 mA	Published datasheet value
Anode voltage v_V ,	250 V	Published datasheet value
Cathode resistor R_y	800 Ω	Published datasheet value
of both systems I_o	1.6 mA	Published datasheet value
Internal resistance R_i	7.7 k Ω	Published datasheet value
Grid voltage $-V_g$	22 V	Published datasheet value
Grid voltage $-V_g$ max	30 V	Published datasheet value
Anode current I	20 μ A	Published datasheet value
Grid voltage $-V_g$ min	18 V	Published datasheet value
Anode current I_y	5 μ A	Published datasheet value
Grid voltage V_g	0 V	Published datasheet value
Anode current I_y	11.8 mA	Published datasheet value
Mutual conductance S	3.1 mA/V	Published datasheet value
electrodes Ring min	500 M Ω	Published datasheet value
Voltage between electrodes =	100 V	Published datasheet value
Voltage between electrodes	300 V	Published datasheet value
Anode voltage V_5 =	250 V	Published datasheet value
Grid voltage $-V_g$ =	8.5 V	Published datasheet value
Anode to cathode and heater C_a/kf	0.7 pF	Published datasheet value
C_a'/k'	0.6 pF	Published datasheet value
Grid to cathode and heater C_g/kf	-1.95 pF	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to grid Cag	1.8 pF	Published datasheet value
The tube is subjected during	32 h	Published datasheet value
during	10000 h	Published datasheet value
Heater voltage: The average heater voltage should be	6.3 V	Published datasheet value
Variations of the heater voltage exceeding the range of	6 V	Published datasheet value
\ =	16 V	Published datasheet value
i i L1	200 V	Published datasheet value
)RR =	0 V	Published datasheet value
I~ S5	0 V	Published datasheet value

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