



ELECTRONIC TUBE REFERENCE

ECC8100

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Special-purpose professional twin triode designed for reliable amplifier or control service, with paired sections intended for demanding industrial electronic equipment.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	1875 Ω
TRANSCONDUCTANCE	0.016 S
AMPLIFICATION FACTOR	30
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	40 mA
Published Telefunken ratings and characteristics promoted from the supplied source. Telefunken ECC8100 triode system I, internally screened between anode and grid for cascode, wideband amplifier and oscillator operation. Typical gm 16 mA/V, μ 30; plate resistance 1875 Ω calculated as μ/gm, not an independent measurement. Per-system maximum anode 250 V, plate dissipation 2.5 W, cathode current 40 mA. System I heater-to-cathode maximum 50 V; capacitances published.	

SECTION2 Triode	
PLATE RESISTANCE	1500 Ω
TRANSCONDUCTANCE	0.02 S
AMPLIFICATION FACTOR	30
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	40 mA
<i>Second physical triode restored. Telefunken ECC8100 triode system II; electrically distinct from internally screened system I. Typical gm 20 mA/V, μ 30; plate resistance 1500 Ω calculated as μ/gm, not an independent measurement. Per-system maximum anode 250 V, plate dissipation 2.5 W, cathode current 40 mA. System II heater-to-cathode maximum 120 V; capacitances published.</i>	

Twin triode with separate cathodes and internal screening for cascode circuits, oscillators, and wideband amplifiers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1959 Telefunken

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

1959 TELEFUNKEN

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	450 mA	—
Application	Cascode oscillator wideband amplifier	InternalScreening