



ELECTRONIC TUBE REFERENCE

ECC186

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Special-quality twin triode designed for reliable long-life professional amplifier and control service, with paired sections and construction intended for sustained operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	12.6 V / 150 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	300 V
MAXIMUM PLATE DISSIPATION	2.75 W
Identical repeated triode sections compressed to one row. Medium-mu long-life double triode for computer applications and prolonged cut-off operation.	

SECTION2 Triode	
PLATE RESISTANCE	7700 Ω
TRANSCONDUCTANCE	0.0022 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.75 W
<i>Second physical triode section; added to align rows with SectionCount.</i>	

ECC186 is described in the supplied Philips material as a dual triode with series/parallel heater connection. Published electrical ratings and characteristics were extracted from the supplied datasheet.

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	—
Plate current	10.5 mA	—
Maximum plate voltage	300 V	—
Maximum plate dissipation	2.75 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2200 μ S	—
Amplification factor	17	—
Plate resistance	7.7 kohm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid capacitance	1.8 pF	—
Plate capacitance	0.37 pF	—
Grid-plate capacitance	1.5 pF	—

1963 Philips Electron Tubes Handbook V3

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

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	300 mA	Published heater rating
Series heater voltage	12.6 V	SeriesHeater
Series heater current	150 mA	SeriesHeater
Transconductance	2200 μS	EachTriode
Amplification factor	17	EachTriode
Plate resistance	7700 ohm	EachTriode
Alternate transconductance	3100 μS	EachTriode OperatingPoint2
Alternate amplification factor	19.5	EachTriode OperatingPoint2
Alternate plate resistance	6250 ohm	EachTriode OperatingPoint2

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	EachTriode
Grid bias	-8.5 V	EachTriode
Plate current	10.5 mA	EachTriode
Alternate plate voltage	100 V	EachTriode OperatingPoint2
Alternate plate current	11.8 mA	EachTriode OperatingPoint2



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
Typical anode voltage	250 V	EachTriode
Typical anode current	10.5 mA	EachTriode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Alternative transconductance	3100 μS	Va=100V Vg=0V
Alternative amplification factor	19.5	Va=100V Vg=0V