

ELECTRONIC TUBE REFERENCE

CBC1

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS
CONSTRUCTION
DIODE-DIODE-TRIODE

All-current double-diode triode combining two detector diodes with a voltage-amplifier triode. It integrates receiver detection, automatic gain control, and low-frequency amplification in a series-heater valve.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	13 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode	
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM CATHODE CURRENT	0.8 mA
MAXIMUM HEATER-CATHODE VOLTAGE	125 V
Diode section of combined dual-diode triode.	

SECTION2 Diode	
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM CATHODE CURRENT	0.8 mA
MAXIMUM HEATER-CATHODE VOLTAGE	125 V
Diode section of combined dual-diode triode.	

SECTION3 Triode	
PLATE RESISTANCE	13500 Ω
TRANSCONDUCTANCE	0.002 S
AMPLIFICATION FACTOR	27
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Triode section; typical values promoted from the published operating data.</i>	

All-current double-diode triode for detector, automatic-gain-control, and low-frequency amplifier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

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

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	Published table operating point
Plate current	4 mA	Published table operating point
Control-grid bias	5 V	Published table operating point
Alternate plate voltage	100 V	OperatingPoint2
Alternate plate current	2 mA	OperatingPoint2
Alternate control-grid bias	2.5 V	OperatingPoint2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2000 μ S	Published table characteristic
Amplification factor	27	Published table characteristic
Plate resistance	13500 ohm	Published table characteristic
Heater/filament voltage	13 V	Published heater/filament rating
Heater/filament current	200 mA	Published heater/filament rating
Alternate transconductance	1800 μ S	OperatingPoint2
Alternate amplification factor	27	OperatingPoint2
Alternate plate resistance	15000 ohm	OperatingPoint2

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode peak voltage maximum	200 V	—
Diode current maximum	0.8 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode-cathode capacitance	2.3 pF	—

1953 RFT RUNDFUNK TECHNIK

Section 2 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode peak voltage maximum	200 V	—
Diode current maximum	0.8 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode-cathode capacitance	3 pF	—

1953 RFT RUNDFUNK TECHNIK

Section 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	200 V	—
Grid bias	-5 V	—
Anode current	4 mA	—
Cold anode voltage maximum	550 V	—
Grid leak resistance maximum	1.5 MΩ	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-anode capacitance	1.7 pF	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Tunsgram

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

195X TUNSGRAM

Section 1 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum signal voltage	200 V	Per diode, peak
Maximum diode current	0.8 mA	Per anode

195X TUNSGRAM

Section 2 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum signal voltage	200 V	Per diode, peak
Maximum diode current	0.8 mA	Per anode

195X TUNSGRAM

Section 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate voltage	200 V	—
Typical plate current	4 mA	—
Typical grid voltage	-5 V	—
Maximum no-current anode voltage	550 V	—
Maximum heater-cathode voltage	125 V	—



SOURCE OPERATING CONDITIONS

SOURCE PDF

1999 Philips 0-D

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

1999 PHILIPS 0-D
Section 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate voltage	250 V	—
Maximum plate current	10 mA	—

TUBE TINKER

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and their source documents.

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