



ELECTRONIC TUBE REFERENCE

ECC40

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Medium-mu dual triode with separate cathodes intended for audio-frequency preamplifier service, providing two similar voltage-amplifying sections for low-level AF circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	11000 Ω
TRANSCONDUCTANCE	0.0029 S
AMPLIFICATION FACTOR	32
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	10 mA
Triode section; values semantically promoted from published characteristics/maximum-ratings tables where present.	

SECTION2 Triode	
PLATE RESISTANCE	11000 Ω
TRANSCONDUCTANCE	0.0029 S
AMPLIFICATION FACTOR	32
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	10 mA
Second physical triode section; added to align rows with SectionCount.	

Dual triode with separate cathodes for audio-frequency preamplifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Mullard Valve and Service Manual

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

1951 MULLARD VALVE AND SERVICE MANUAL

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	—
LowMicrophonyDesign	1 boolean	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 La Radiotechnique

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1953 LA RADIOTECHNIQUE

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DOUBLE TRIODE ECC 40	4 ohm	Triode
Tension de l'anode	250 V	Triode
Tension de la grille	55 V	Triode
Courant anodique	6 mA	Triode
Resistance interne	11000 ohm	Triode
Tension de l'anode	300 V	Triode
Puissance dissipee sur l'anode	15 W	Triode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Courant cathodique	10 mA	Triode
Resistance du circuit de la grille Ra	1 Mohm	Triode
Resistance entre filament et cathode ... Rkf	15 Mohm	Triode
Tension entre filament et cathode Vkf	175 V	Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacite de la grille	28 pF	Triode
Capacite de l'anode	11 pF	Triode
Capacite grille-anode	28 pF	Triode
Capacite entre anodes	8 pF	Triode


SOURCE DATA APPENDIX

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	6 mA	—
Maximum plate voltage	300 V	—
Maximum plate dissipation	1.5 W	—
Power output one section	0.28 W	ClassA
Power output push-pull	0.52 W	PushPull

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2900 μS	—
Amplification factor	32	—
Plate resistance	11 kohm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate capacitance	1.1 pF	—
Grid capacitance	2.8 pF	—
Grid-plate capacitance	2.7 pF	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Mazda Belvu

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1968 MAZDA BELVU

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	600 mA	Published nominal value
Transconductance	2700 μS	Published nominal or operating characteristic
Nominal plate current	6 mA	Per triode; $V_a=250\text{ V}$

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	1.5 W	Published maximum rating


SOURCE DATA APPENDIX

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitances Cu	0.8 pF	Capacitances Cu = 1,1 pP Cg' =055 2F Cp5'<0,8 pF

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
input voltage Vi	50 V	input voltage Vi 2 5 mV for an output of 50 mW of

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