

ELECTRONIC TUBE REFERENCE

E288CC

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

Special-quality high-transconductance double triode with separate cathodes designed for cascode amplifier and pulse-circuit service in professional equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Noval	BASE PINS	9
NOMINAL HEATER	6.3 V / 475 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	1400 Ω
TRANSCONDUCTANCE	0.018 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	40 mA
Representative row for electrically identical repeated section.	

SECTION2 Triode	
PLATE RESISTANCE	1400 Ω
TRANSCONDUCTANCE	0.018 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	40 mA
<i>Second physical triode section; added to align rows with SectionCount.</i>	

Special-quality double triode with separate cathodes for cascode amplifier and pulse-circuit service.

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	150 V	EachUnit
Plate current	30 mA	EachUnit

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	18000 uS	EachUnit
Amplification factor	25	EachUnit
Plate resistance	1.4 kOhm	EachUnit

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	100 V	—
Typical Plate Current	30 mA	—
Noise Figure	5.7 dB	200MHz Cascode

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1967 Mullard Receiving Tubes for Maintenance

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

1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
*Ca-g	1.8 pF	Published in approved E288CC.pdf target datasheet; Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cg ' _ g ' <	0.005 pF	Published in approved E288CC.pdf target datasheet; Section1
N.F. (f =	200 MHz	Published in approved E288CC.pdf target datasheet; Section1
N.F. (f = 200Mc/s) 5.0	5.7 dB	Published in approved E288CC.pdf target datasheet; Section1
Anode current 30 28 to	32 mA	Published in approved E288CC.pdf target datasheet; Section1
Ik max	40 mA	Published in approved E288CC.pdf target datasheet; Section1
Tbulb max	190 °C	Published in approved E288CC.pdf target datasheet; Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
gm 14	18 mA	Published in approved E288CC.pdf target datasheet; Section1

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
Heater voltage V_{ϕ}	6.3 V	Heating
Heater current I_{ϕ}	475 mA	Heating
Anode current I_y	30 mA	Heating
Mutual conductance S	20 mA	Heating
Heater current I_n	1450–500 mA	Characteristics
Anode dissipation W_a max	3 W	Limiting Values
Grid peak voltage $'V_{gp}$ max	150 v	Limiting Values
Cathode current N max	40 mA	Limiting Values
Cathode peak current I_{kp} max	400 mA	Limiting Values
Voltage between cathode and heater V_{it} max	150 v	Limiting Values
Heater voltage: The average heater voltage should be	6.3 V	Limiting Values
Variations of the heater voltage exceeding the range of	6 V	Limiting Values
Maximum plate dissipation	3 W	Promoted published datasheet value

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode supply voltage V_{ha}	100 v	Characteristics
Grid supply voltage $+V_{bg}$	9 v	Characteristics
Cathode resistor R_y	350 Ω	Characteristics
Anode current I	28–32 mA	Characteristics
Mutual conductance S	17–22.5 mA	Characteristics
Internal resistance R_j	1.25 k Ω	Characteristics
Equivalent noise resistance R_{eq}	200 Ω	Characteristics

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Negative grid current -lg max	200 mA	Characteristics
Anode supply voltage Vba	60 v	Characteristics
Cathode resistor Ry	80 Ω	Characteristics
Anode current Iy	1.5 mA	Characteristics
Mutual conductance S	15.5 mA	Characteristics
Internal resistance Rj	1.85 k Ω	Characteristics
Plate resistance	1250 Ω	Promoted published datasheet value
Transconductance	20000 μ S	Promoted published datasheet value
Amplification factor	25	Promoted published datasheet value

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to cathode heater and screen Cg/kfs	4.7 pF	Capacitances
Anode to cathode heater and screen Ca/kfs	1.9 pF	Capacitances
Anode to grid Cag	1.8 pF	Capacitances
Cathode to grid heater and screen Ck/gfs	7.8 pF	Capacitances
Anode to grid heater and screen Ca/gfs	3.5 pF	Capacitances
Anode to cathode Cak	0.25 pF	Capacitances
Anode to anode other section Caa' max	0.05 pF	Capacitances
Grid to grid other section Cgg' max	0.005 pF	Capacitances

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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