



ELECTRONIC TUBE REFERENCE

EC86

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-frequency triode for UHF amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	4900 Ω
TRANSCONDUCTANCE	0.014 S
AMPLIFICATION FACTOR	68
MAXIMUM PLATE VOLTAGE	220 V
MAXIMUM PLATE DISSIPATION	2.2 W
MAXIMUM CATHODE CURRENT	20 mA
High-frequency triode section; source includes detailed interelectrode capacitances and limit data.	

UHF triode for oscillator, mixer and grounded-grid amplifier service in television Bands IV and V.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Mullard Receiving Tubes

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

1958 MULLARD RECEIVING TUBES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	200 mA	—
Construction	Frame grid	GroundedGrid



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Tesla

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

195X TESLA

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode capacitances	Published	See source sheet for electrode-specific capacitance values



SOURCE OPERATING CONDITIONS

1963 Amperex Condensed

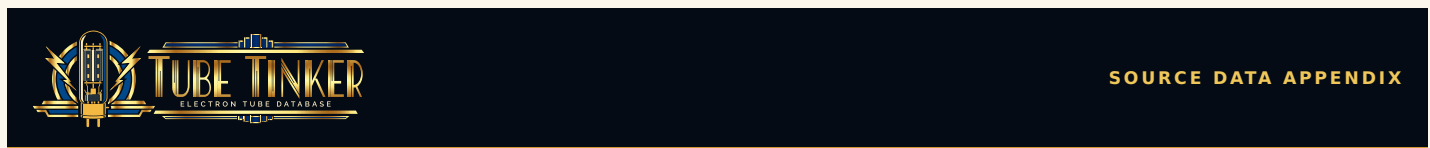
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1963 AMPEREX CONDENSED

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	160 V	Published table
Control-grid bias	-1.25 V	Published table
Plate current	12.5 mA	Published table

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	13500 μ S	Published table
Amplification factor	65	Published table
Plate resistance	4300 ohm	Published table
Heater voltage	6.3 V	Published heater rating
Heater current	180 mA	Published heater rating



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	175 V	—
Grid voltage	-1.5 V	—
Plate current	12 mA	—
Maximum plate voltage	220 V	—
Maximum plate dissipation	2.2 W	—

Characteristic		
Parameter	Published Value	Condition / Note
Transconductance	14000 μS	—
Amplification factor	68	—

Capacitance		
Parameter	Published Value	Condition / Note
Input capacitance	5.5 pF	—
Output capacitance	3.2 pF	—
Grid-plate capacitance	0.05 pF	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Triode

Characteristics		
Parameter	Published Value	Condition / Note
Heater voltage	6.3 V	Published nominal value
Heater current	200 mA	Published nominal value
Transconductance	14000 μS	Published nominal or operating characteristic
Noise resistance	2300 ohm	Published equivalent noise resistance

Other		
Parameter	Published Value	Condition / Note
Maximum plate dissipation	2.2 W	Published maximum rating

Capacitance		
Parameter	Published Value	Condition / Note
Input-related capacitance	3.5 pF	Grid-cathode, without external shield



SOURCE OPERATING CONDITIONS

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1972 Philips Receiving Tubes

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

1972 PHILIPS RECEIVING TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage V_{hi}	6.3 V	—
Heater current I	200 mA	—
Cathode to heater voltage, (k pos) V_{ihf} (k pos) max	—100 V	Maximum
(k neg) V_{kf} (k neg) max	—50 V	Maximum



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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
Maximum cathode-heater voltage cathode positive	100 V	—
Maximum cathode-heater voltage cathode negative	50 V	—

TUBE TINKER

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

