

ELECTRONIC TUBE REFERENCE

HL2

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Directly heated two-volt OSRAM triode for battery-operated receiver and amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2 V / 400 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	18000 Ω
TRANSCONDUCTANCE	0.0015 S
AMPLIFICATION FACTOR	27
MAXIMUM PLATE VOLTAGE	150 V
Published characteristics/ratings were promoted when unambiguous; remaining operating values are preserved in TUBE_SECTION_PARAMETER.	

HL2: OSRAM triode valve. The complete approved OSRAM sheet was read for construction, characteristics, operating data, and application guidance.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

192X Marconi Valve

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

192X MARCONI VALVE

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	50–150 V	Grid-leak detector
Anode voltage	75–150 V	Anode-bend detector
Anode voltage	100–150 V	Low-frequency amplifier



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Osram Valves

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

1937 OSRAM VALVES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	2 V	—
Heater/filament current	100 mA	—
Plate impedance	18000 ohm	—
Mutual conductance	1500 uS	—
Amplification factor	27	—
Application	HF amplifier, detector, and LF amplifier	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	150 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average anode current at 150 V	1.75 mA	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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193X Osram

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

193X OSRAM

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament/heater voltage	2 V	—
Filament/heater current	100 mA	—
Amplification factor	105	—
Plate impedance	18000 ohm	—
Mutual conductance	1500 uS	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1955 Marconi

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

1955 MARCONI

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	2 V	—
Filament Current	400 mA	—
Amplification Factor	27	—
Transconductance	1500 uS	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	18000 ohm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum/Published Anode Voltage	150 V	—
Typical LF Amplifier Anode Voltage	100-150 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Anode Capacitance	4 pF	—
Grid-Cathode Capacitance	8 pF	—
Anode-Cathode Capacitance	9 pF	—

TUBE TINKER

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