



ELECTRONIC TUBE REFERENCE

PX25

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Classic directly heated low-impedance audio power triode for high-quality Class A output stages. Approximately 25 W plate dissipation, high transconductance, and low plate resistance support roughly five watts of single-ended output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	UX4	BASE PINS	4
NOMINAL HEATER	4 V / 2 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	1265 Ω
TRANSCONDUCTANCE	0.0075 S
AMPLIFICATION FACTOR	9.5
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	25 W
MAXIMUM CATHODE CURRENT	90 mA
Published maximum ratings and characteristics audited; remaining useful numerical data retained in parameter table.	

Classic directly heated PX25 audio output triode. The supplied Emission Labs sheet was read for filament data, maximum ratings, representative operating points, gm/rp/mu, output conditions, capacitances, and rectifier filter conditions as applicable.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Optimum load resistance	3200 ohm	Published operating data



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Voltage	4 V	Published datasheet value
Heater/Filament Current	2 A	Published datasheet value
Maximum Anode Voltage	400 V	Published datasheet value
Maximum Anode Dissipation	25 W	Published datasheet value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	1265 ohm	Published datasheet value
Mutual Conductance	8000 μ S	Published datasheet value
Amplification Factor	9.5	Published datasheet value

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published value [1]	2 A	2\ FILAMENT CURRENT 2-0 AMPS.
Published value [2]	2 A	2\ FILAMENT CURRENT 2-0 AMPS.
Published value [3]	0 mA	2\ FILAMENT CURRENT 2-0 AMPS.
ANODE VOLTS S0	0	ANODE VOLTS S00MAX. .
Ar £ [1]	4100 ohm	Ar £4100. £60 Marconi PX25 is a low impedance
Ar £ [2]	6 ohm	Ar £4100. £60 Marconi PX25 is a low impedance
Ar £ [3]	5 ohm	Ar £4100. £60 Marconi PX25 is a low impedance
< J ' _'" {;, ' , 'ffif, ' , ' , ' , ' ? , ' , ' fi: """" triode giving }bout	5	< J ' _'"{;, ' , 'ffif, ' , ' , ' , ' ? , ' , ' fi: """" triode giving }bout 5 watts output in
A] T H [1]	4000 ohm	A] T H 4000 ohms, bias resistance 475 ohms,
A] T H [2]	475 ohm	A] T H 4000 ohms, bias resistance 475 ohms,
Published value [1]	1	1 7 T grid bias 30 volts.
Published value [2]	7	1 7 T grid bias 30 volts.
Published value [3]	30	1 7 T grid bias 30 volts.
VRN = il AULANENT CURRENT [1]	20 A	: VRN = il AULANENT CURRENT 20of efficiency pentode giving 10
VRN = il AULANENT CURRENT [2]	10 A	: VRN = il AULANENT CURRENT 20of efficiency pentode giving 10
S grid bias of only	16	S grid bias of only 16 volts,
bias resistance	240 ohm	bias resistance 240 ohms,
screen current	12.5 mA	screen current 12.5 mA,

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Emission Labs

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

2026 EMISSION LABS

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	4 V	—
Filament current	2 A	—
Plate resistance	1265 ohm	ClassA
Amplification factor	9.1	ClassA
Transconductance	7600 uS	ClassA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	400 V	ClassA
Plate current	62.5 mA	ClassA
Grid voltage	-29 V	ClassA
Load resistance	3200 ohm	ClassA
Output power	6 W	ClassA