



ELECTRONIC TUBE REFERENCE

45B

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Power triode documented for amplifier or control service, with manufacturer operating data emphasizing useful power output rather than small-signal voltage amplification. Its available documentation does not justify a narrower specialized functional category.

GENERAL CHARACTERISTICS

BASE DESIGNATION	UX4	BASE PINS	—
NOMINAL HEATER	2.5 V / 1.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	1670 Ω
TRANSCONDUCTANCE	0.0021 S
AMPLIFICATION FACTOR	3.5
MAXIMUM PLATE VOLTAGE	420 V
MAXIMUM PLATE DISSIPATION	22 W
MAXIMUM CATHODE CURRENT	53 mA

Higher-power directly heated 45-family 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](#)

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

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Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	2.5 V	—
Filament current	1.5 A	—
Plate resistance	1670 ohm	ClassA
Amplification factor	3.5	ClassA
Transconductance	2100 uS	ClassA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	275 V	ClassA
Plate current	36 mA	ClassA
Grid voltage	-56 V	ClassA
Load resistance	4600 ohm	ClassA
Output power	2 W	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	7 pF	—
Grid-filament capacitance	4 pF	—
Plate-filament capacitance	3 pF	—