



ELECTRONIC TUBE REFERENCE

300BXLS

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Heavy-duty directly heated 300B-family audio triode for substantially higher Class A output. Approximately 60 W plate dissipation, elevated plate-voltage capability, and higher operating current extend the familiar low-mu 300B concept into more powerful stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	UX4	BASE PINS	4
NOMINAL HEATER	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	700 Ω
TRANSCONDUCTANCE	0.0064 S
AMPLIFICATION FACTOR	4.5
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	60 W
MAXIMUM CATHODE CURRENT	120 mA

300B-XLS high-power directly heated 300B-family audio 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	5 V	—
Filament current	1.5 A	—
Plate resistance	700 ohm	ClassA
Amplification factor	4.5	ClassA
Transconductance	6400 uS	ClassA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	495 V	ClassA
Plate current	100 mA	ClassA
Grid voltage	-104 V	ClassA
Peak plate dissipation	60 W	—