



ELECTRONIC TUBE REFERENCE

320BXLs

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Higher-current 300B-XLS-family directly heated audio power triode, also specified as a replacement for type 842. Roughly 55 W continuous plate dissipation and high-current Class A operation permit substantially greater single-tube output than a conventional 300B.

GENERAL CHARACTERISTICS

BASE DESIGNATION	UX4	BASE PINS	4
NOMINAL HEATER	5 V / 1.7 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	630 Ω
TRANSCONDUCTANCE	0.0067 S
AMPLIFICATION FACTOR	4.2
MAXIMUM PLATE VOLTAGE	550 V
MAXIMUM PLATE DISSIPATION	55 W
MAXIMUM CATHODE CURRENT	160 mA

Higher-current 300B-XLS-family audio power triode; also specified as a replacement for type 842. The supplied Emission Labs sheet was read for filament data, maximum ratings, representative operating points, gm/rp/ μ , 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	1.7 A	—
Plate resistance	630 ohm	ClassA
Amplification factor	4.2	ClassA
Transconductance	6700 uS	ClassA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	495 V	ClassA
Plate current	110 mA	ClassA
Grid voltage	-104 V	ClassA
Maximum Class A output power	22 W	—
Peak plate dissipation	65 W	OneMinute