ELECTRONIC TUBE REFERENCE

300BM

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Mesh-plate directly heated 300B-family audio power triode. Its distinctive mesh anode accompanies traditional low-mu, low-plate-resistance characteristics and plate dissipation in the mid-30-watt range for single-ended Class A output stages.

General characteristics

BASE DESIGNATION	UX4	**BASE PINS**	4
NOMINAL HEATER	5 V / 1.3 A	**PARALLEL HEATER**	– / –
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode

PLATE RESISTANCE	700 Ω
TRANSCONDUCTANCE	0.0056 S
AMPLIFICATION FACTOR	3.9
MAXIMUM PLATE VOLTAGE	450 V
MAXIMUM PLATE DISSIPATION	36 W
MAXIMUM CATHODE CURRENT	100 mA

300BM+ mesh-plate 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

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SOURCE PDF

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	**1.3 A**	—
Plate resistance	**700 ohm**	ClassA
Amplification factor	**3.9**	ClassA
Transconductance	**5600 uS**	ClassA

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Plate voltage	**300 V**	ClassA
Plate current	**56 mA**	ClassA
Grid voltage	**-58.5 V**	ClassA

CAPACITANCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Grid-plate capacitance	**15 pF**	—
Grid-filament capacitance	**8.5 pF**	—
Plate-filament capacitance	**4 pF**	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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