



ELECTRONIC TUBE REFERENCE

20B

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Filamentary transmitting triode for radio-frequency amplifier and oscillator service. Manufacturer ratings and operating conditions identify it as an RF power device rather than a receiving or small-signal triode.

GENERAL CHARACTERISTICS

BASE DESIGNATION	UX4	BASE PINS	4
NOMINAL HEATER	5 V / 1.4 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	3000 Ω
TRANSCONDUCTANCE	0.0069 S
AMPLIFICATION FACTOR	21
MAXIMUM PLATE VOLTAGE	580 V
MAXIMUM PLATE DISSIPATION	25 W
MAXIMUM CATHODE CURRENT	60 mA

Solid-plate medium-gain directly heated driver/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	5 V	—
Filament current	1.4 A	—
Factory test plate voltage	420 V	—
Factory test plate current	42 mA	—
Factory test grid voltage	-9.9 V	—
Plate resistance	3000 ohm	—
Amplification factor	21	—
Transconductance	6900 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum continuous plate dissipation	25 W	—