



ELECTRONIC TUBE REFERENCE

4047B

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-power directly heated triode documented in the Standard Valves family. The available manufacturer material does not provide sufficiently clear functional wording or reliable detailed operating data to justify a narrower application classification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	19 V / 59 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	7500 Ω
TRANSCONDUCTANCE	0.0053 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	13000 V
MAXIMUM PLATE DISSIPATION	10000 W
MAXIMUM GRID DISSIPATION	200 W
Published ratings/characteristics promoted; remaining useful source values represented as parameters.	

Single-ended water-cooled triode replacing 4047-A, with high-voltage audio/modulator and radio-frequency operating data.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Standard Valves

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

1937 STANDARD VALVES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage range	18–20 V	Exact value marked on bulb
Total emission	6 A	—
Grid-anode capacitance	24 pF	—
Anode-filament capacitance	2 pF	—
Grid-filament capacitance	17 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct anode current	1.5 A	—
Maximum plate voltage with anode modulation	10000 V	—
Maximum output	13.2 kW	ClassB;AF;TwoTubes
Carrier output	10 kW	ClassC;Telegraphy



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Standard Telephone and Cables

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

1946 STANDARD TELEPHONE AND CABLES

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	19 V	—
Heater/filament current	59 A	—
Plate resistance	7500 ohm	—
Transconductance	0.0053 A/V	—
Amplification factor	40	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct anode voltage	13000 V	—
Maximum anode dissipation	10000 W	—

TUBE TINKER

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