

ELECTRONIC TUBE REFERENCE

4030C

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Double-ended water-cooled pure-tungsten power triode for high-power audio modulation and RF applications. Roughly 80 kW plate dissipation, low plate resistance, and 17.5 kV plate capability place it among extremely large transmitter power devices.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	25 V / 250 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	1800 Ω
TRANSCONDUCTANCE	0.02 S
AMPLIFICATION FACTOR	36
MAXIMUM PLATE VOLTAGE	17500 V
MAXIMUM PLATE DISSIPATION	80000 W
MAXIMUM GRID DISSIPATION	1500 W
MAXIMUM CATHODE CURRENT	11 A
Published ratings/characteristics promoted; remaining useful source values represented as parameters.	

Double-ended water-cooled triode with a pure tungsten filament, intended for high-power audio-frequency/modulator and radio-frequency service.

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
Total emission	45 A	—
Grid-anode capacitance	61 pF	—
Anode-filament capacitance	15 pF	—
Grid-filament capacitance	45 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct anode current	11 A	—
Maximum frequency at full ratings	2 MHz	—
Maximum anode voltage at 22 MHz	15000 V	Frequency=22MHz
Direct anode voltage	14000 V	ClassB;AF;TwoTubes
Grid bias	-150 V	ClassB;AF;TwoTubes
Maximum output	100 kW	ClassB;AF;TwoTubes

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Standard Telephone and Cables

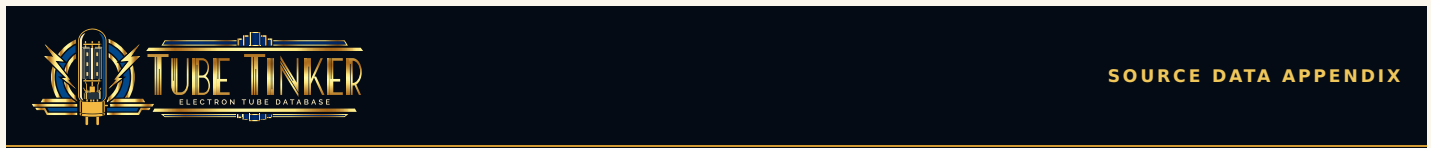
Published test conditions and operating points. Values on this page are preserved as reported by this source.

1946 STANDARD TELEPHONE AND CABLES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	25 V	—
Heater/filament current	250 A	—
Plate resistance	1800 ohm	—
Transconductance	0.02 A/V	—
Amplification factor	36	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct anode voltage	17500 V	—
Maximum anode dissipation	80000 W	—
Maximum grid dissipation	1500 W	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Standard Valves

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

1947 STANDARD VALVES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridToAnodeCapacitance	61 pF	—
Grid To Filament Capacitance	45 pF	—
AnodeToFilamentCapacitance	15 pF	—
PeakEmission	45 A	—