



ELECTRONIC TUBE REFERENCE

5998

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Medium/low-mu twin power triode designed primarily as a series-pass tube in regulated power supplies. Its low plate resistance and high transconductance provide substantial current at comparatively small tube voltage drop.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B8-11	BASE PINS	8
NOMINAL HEATER	6.3 V / 2.4 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	350 Ω
TRANSCONDUCTANCE	0.014 S
AMPLIFICATION FACTOR	5.5
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	15 W
MAXIMUM CATHODE CURRENT	140 mA
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
Representative row for two electrically identical triode sections; maximum ratings apply to each triode.	

SECTION2 Triode	
PLATE RESISTANCE	350 Ω
TRANSCONDUCTANCE	0.014 S
AMPLIFICATION FACTOR	5.5
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	15 W
MAXIMUM CATHODE CURRENT	140 mA
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
<i>Second physical triode section; identical dual-triode structure per reviewed datasheets.</i>	

The 5998 is a medium/low-mu twin power triode intended primarily as a series pass tube in regulated power supplies, providing high current at low tube voltage drop.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	110 V	ClassA;EachUnit
Cathode Resistor	105 ohm	ClassA;EachUnit
Plate Current	100 mA	ClassA;EachUnit



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Series regulator	DCPowerSupply



1966 Tung Sol Electronic Tubes 4 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-cathode capacitance each section	7.7 pF	WholeTube
Grid-to-plate capacitance each section	18.3 pF	WholeTube
Cathode-to-plate capacitance each section	2.5 pF	WholeTube
Heater-to-cathode capacitance each section	10 pF	WholeTube
Plate-to-plate capacitance between sections	1.7 pF	WholeTube
Minimum cathode heating time	30 s	WholeTube
Transconductance per section	14000 μ S	WholeTube
Amplification factor	5.5	WholeTube

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	275 V	WholeTube
Maximum plate dissipation per plate	15 W	WholeTube
Maximum DC plate current per plate	140 mA	WholeTube



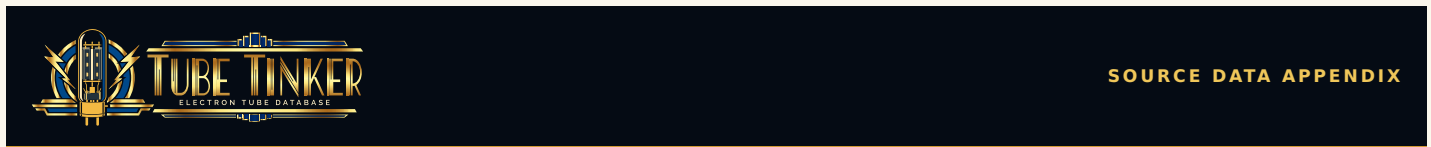
2026 Western Electric 400s

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

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum heater-cathode voltage	150 V	EachTriode
Maximum grid circuit resistance, cathode bias	0.1 Mohm	EachTriode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current at representative condition	125 mA	PlateSupplyVoltage=110V



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric Other

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

2026 WESTERN ELECTRIC OTHER

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	General characteristics
Heater Current	2.4 A	General characteristics
Plate Voltage Maximum	250 V	Each triode; design-center value
Plate Dissipation Maximum	13 W	Each triode; design-center value
Cathode Current Maximum	125 mA	Each triode; design-center value
Heater-Cathode Voltage Maximum	150 V	Each triode; design-center value
Bulb Temperature Maximum	200 degC	Design-center value
Grid Circuit Resistance Maximum	0.1 megohm	Cathode bias
Plate Supply Voltage	110 V	Each triode; operating column 1
Cathode Bias Resistance	90 ohm	Each triode; operating column 1
Plate Supply Voltage	110 V	Each triode; operating column 2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Bias Resistance	65 ohm	Each triode; operating column 2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	100 mA	Each triode; operating column 1
Amplification Factor	5.9	Each triode; operating column 1
Plate Resistance	330 ohm	Each triode; operating column 1
Transconductance	18000 uS	Each triode; operating column 1
Plate Current	125 mA	Each triode; operating column 2
Amplification Factor	6.1	Each triode; operating column 2
Plate Resistance	305 ohm	Each triode; operating column 2
Transconductance	20000 uS	Each triode; operating column 2

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Recommended Heater-Cathode Voltage for Optimum Life	90 V	Should not exceed for optimum life expectancy
Recommended Bulb Temperature for Optimum Life	150 degC	Forced-air cooling should keep bulb below this temperature

TUBE TINKER

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

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