

ELECTRONIC TUBE REFERENCE

1E4G

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Directly heated medium-mu triode for Class A voltage amplification in receiving and general small-signal electronic equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5S	BASE PINS	5
NOMINAL HEATER	1.4 V / 50 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

5S - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IS	A	IS – Internal Screen	CONNECTED
PIN2 – F	–	F – Filament	CONNECTED
PIN3 – P	A	P – Plate (Anode)	CONNECTED
PIN5 – G1	A	G1 – Control Grid	CONNECTED
PIN7 – F	–	F – Filament	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	11200 Ω
TRANSCONDUCTANCE	0.0013 S
AMPLIFICATION FACTOR	14.5
MAXIMUM PLATE VOLTAGE	110 V
<i>Medium-mu triode.</i>	

Directly heated medium-mu triode for Class A voltage amplification.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	90 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	1.5 mA	Plate 90 V; grid -3 V

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-Plate Capacitance	2.4 pF	—



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
Maximum plate voltage	110 V	—
Plate voltage	90 V	ClassA GridBias0V
Control-grid voltage	0 V	ClassA GridBias0V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	4.5 mA	ClassA GridBias0V
Plate resistance	11200 Ohm	ClassA GridBias0V
Transconductance	1300 uS	ClassA GridBias0V
Amplification factor	14.5	ClassA GridBias0V
Plate voltage	90 V	ClassA GridBiasMinus3V
Control-grid voltage	-3 V	ClassA GridBiasMinus3V
Plate current	1.4 mA	ClassA GridBiasMinus3V
Plate resistance	19000 Ohm	ClassA GridBiasMinus3V
Transconductance	760 uS	ClassA GridBiasMinus3V
Amplification factor	14.5	ClassA GridBiasMinus3V

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	2.4 pF	—
Output capacitance	6 pF	—
Grid-to-plate capacitance	2.4 pF	—

TUBE TINKER

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