

ELECTRONIC TUBE REFERENCE

5719

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Low-microphonic subminiature high-mu triode for audio-frequency voltage amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	WireLead	BASE PINS	8
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	30500 Ω
TRANSCONDUCTANCE	0.0023 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	165 V
MAXIMUM PLATE DISSIPATION	0.55 W
MAXIMUM CATHODE CURRENT	3.3 mA
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
Published promoted fields populated semantically; identical repeated sections compressed.	

The 5719 is a subminiature high-mu triode designed for audio-frequency voltage amplification at relatively low signal levels, with specifically noted low microphonics.



SOURCE OPERATING CONDITIONS

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1940 RCA

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

1940 RCA

Section 1 · Triode

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	AudioAmplifier text	—



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1950 Sylvania

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1950 SYLVANIA

Section 1 · Triode

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	150 mA	—



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1958 Compagnie General

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1958 COMPAGNIE GENERAL

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Dissipation	0.3 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	70	—
Plate Resistance	30500 ohm	—
Transconductance	2300 uS	—



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195X General Electric Essential Characteristics

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195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	1.9 pF	—
Output capacitance	2.2 pF	—
Grid-to-plate capacitance	0.8 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	ClassA
Cathode-bias resistor	1500 ohm	ClassA
Plate current	0.73 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	41000 ohm	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1700 μ S	—
Amplification factor	70	—


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1960 RCA Industrial and Communications Types

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1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

Section 1 · Triode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Audio / general amplifier	—


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1961 Tung Sol

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1961 TUNG SOL

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid To Plate Capacitance	1.7 pF	—
Input Capacitance	2.5 pF	—


SOURCE DATA APPENDIX

1966 Tung Sol Electronic Tubes 3 of 4

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1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.8 pF	WholeTube
Input capacitance without shield	1.7 pF	WholeTube
Output capacitance without shield	0.6 pF	WholeTube

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	165 V	WholeTube
Maximum plate dissipation	0.1 W	WholeTube
Maximum DC plate current	3.3 mA	WholeTube
Maximum heater-cathode voltage	200 V	WholeTube
Maximum grid circuit resistance	1.2 megohm	WholeTube
Plate voltage	100 V	ClassA1
Cathode bias resistor	1500 ohm	ClassA1
Amplification factor	70	ClassA1
Plate resistance	41000 ohm	ClassA1
Transconductance	1700 μS	ClassA1
Plate current	0.73 mA	ClassA1



SOURCE DATA APPENDIX

1971 RCA HB3 Binder 3 of 7

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1971 RCA HB3 BINDER 3 OF 7
Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	—165 V	—
Maximum plate dissipation	—0.55 W	—
Maximum cathode current	—3.3 mA	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	30500 Ω	—
Transconductance	2300 μS	—
Amplification factor	70	—
Plate supply voltage	100 V	ClassA
Plate supply voltage	150 V	ClassA
Cathode resistor	1500 Ω	ClassA
Cathode resistor	680 Ω	ClassA
Amplification factor	70	ClassA
Plate resistance	41000 Ω	ClassA
Plate resistance	30500 Ω	ClassA
Transconductance	1700 μS	ClassA
Transconductance	2300 μS	ClassA
Plate current	0.73 mA	ClassA
Plate current	1.85 mA	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
~..` Grid to Plate	0.8–0.8 pF	—
Input	1.7–1.9 pF	—
Output	0.6–2.2 pF	—

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1999 Philips 0-D

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1999 PHILIPS 0-D

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	150 mA	—
Plate voltage	150 V	—
Plate current	1.85 mA	—
Transconductance	2300 μ S	—
Amplification factor	70	—
Plate resistance	30500 ohm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-cathode capacitance	0.6 pF	—
Grid-cathode capacitance	1.7 pF	—
Plate-grid capacitance	0.8 pF	—