ELECTRONIC TUBE REFERENCE

5670

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

> High-frequency medium-mu double triode intended as a general-purpose amplifier, with Class-A voltage-amplifier operation and documented Class-AB1 push-pull power service.

General characteristics

BASE DESIGNATION	E9-1	**BASE PINS**	9
NOMINAL HEATER	6.3 V / 350 mA	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode	
PLATE RESISTANCE	6400 Ω
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.35 W
MAXIMUM CATHODE CURRENT	18 mA
MAXIMUM HEATER-CATHODE VOLTAGE	100 V
Representative row for two identical sections; absolute maxima are per section.	

SECTION2 Triode

PLATE RESISTANCE	6400 Ω
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.35 W
MAXIMUM CATHODE CURRENT	18 mA

Second physical triode restored under current one-row-per-physical-section policy.

> High-frequency medium-mu double triode for Class A voltage amplification and Class AB1 push-pull power service.

SOURCE OPERATING CONDITIONS

SOURCE PDF

1960 RCA Industrial and Communications Types

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

1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

Section 1 · Triode

CROSSREFERENCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Prototype / equivalent family	**2C51**	—

APPLICATION		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Application	**General-purpose amplifier**	—

SOURCE DATA APPENDIX

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**
Heater voltage	**6.3 V**	Nominal
Heater current	**350 mA**	Nominal
Plate voltage	**200 V**	Published operating table; OperatingPoint1
Plate voltage	**150 V**	Published operating table; OperatingPoint1
Plate voltage	**200 V**	Published operating table; OperatingPoint1

SOURCE OPERATING CONDITIONS

1966 Tung Sol Electronic Tubes 3 of 4

SOURCE PDF

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Triode

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Plate voltage	**150 V**	ClassA;EachSection
Cathode resistor	**240 ohm**	ClassA;EachSection
Plate current	**8.2 mA**	ClassA;EachSection
Plate voltage	**300 V**	ClassAB;PushPull;TwoSections
Cathode resistor	**800 ohm**	ClassAB;PushPull;TwoSections
Zero-signal plate current	**4.9 mA**	ClassAB;PushPull;EachSection
Maximum-signal plate current	**6.3 mA**	ClassAB;PushPull;EachSection
Plate-to-plate load impedance	**27000 ohm**	ClassAB;PushPull
Maximum-signal power output	**1 W**	ClassAB;PushPull
Total harmonic distortion	**10 %**	ClassAB;PushPull

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Transconductance	**5500 uS**	ClassA;EachSection
Amplification factor	**35**	ClassA;EachSection

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1968 General Electric Co

SOURCE PDF

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1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Plate Voltage	**150 V**	ClassA EachSection

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Plate Current	**8.2 mA**	ClassA EachSection
Maximum-Signal Power Output	**1 W**	ClassAB PushPull

SOURCE OPERATING CONDITIONS

SOURCE PDF

1971 RCA HB3 Binder 3 of 7

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

1971 RCA HB3 BINDER 3 OF 7

Section 1 · Triode

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum plate voltage	**—330 V**	—
Maximum plate dissipation	**—1.35 W**	—
Maximum cathode current	**—18 mA**	—
Push-pull plate supply voltage	**300 V**	PushPull
Common cathode resistor	**800 Ω**	PushPull
Effective load resistance plate-to-plate	**27000 Ω**	PushPull
Maximum-signal power output	**1 W**	PushPull

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Plate resistance	**6400 Ω**	—
Transconductance	**5500 µS**	—
Amplification factor	**35**	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate supply voltage	**150 V**	ClassA
Cathode resistor	**240 Ω**	ClassA
Amplification factor	**35**	ClassA
Plate resistance	**6400 Ω**	ClassA
Transconductance	**5500 µS**	ClassA
Plate current	**8.2 mA**	ClassA

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to plate (Each unit)	**1.1 pF**	—
Grid to plate	**0.8–2 pF**	—
Grid to cathode and heater.	**1.7–2.7 pF**	—
Plate to cathode and heater	**0.7–2 pF**	—

Tube Tinker

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

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