



ELECTRONIC TUBE REFERENCE

5876

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

UHF pencil triode designed for continuous-wave operation at frequencies extending to approximately 3 GHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5675	BASE PINS	—
NOMINAL HEATER	6.3 V / 135 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	8625 Ω
TRANSCONDUCTANCE	0.0065 S
AMPLIFICATION FACTOR	56
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	6.25 W
MAXIMUM CATHODE CURRENT	25 mA
<i>Promoted from clearly identified printed ratings/characteristics; additional published operating points, capacitances, and specialized ratings retained in TUBE_SECTION_PARAMETER.</i>	

UHF pencil triode designed for continuous-wave operation up to 3000 megacycles.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumFrequencyAmplifierMixer	1000 MHz	—
MaximumFrequencyMultiplier	1500 MHz	—
MaximumFrequencyOscillator	1700 MHz	—



SOURCE OPERATING CONDITIONS

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1950 Sylvania

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1950 SYLVANIA

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum operating frequency	3000 MHz	Published datasheet value



SOURCE OPERATING CONDITIONS

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1956 RCA Transmitting Tubes

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1956 RCA TRANSMITTING TUBES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	135 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumOperatingFrequency	3000 MHz	—



SOURCE OPERATING CONDITIONS

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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	2.5 pF	Section1
Output capacitance	0.035 pF	Section1
Grid-to-plate capacitance	1.4 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Cathode resistor	75 Ω	ClassA
Plate current	18 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	8625 Ω	ClassA
Transconductance	6500 μS	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	56	ClassA



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	135 mA	—
Plate voltage	250 V	—
Plate current	18 mA	—
Transconductance	6500 μ S	—
Amplification factor	56	—
Plate resistance	8625 ohm	—
RF amplifier maximum frequency	1000 MHz	—
Oscillator maximum frequency	1700 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-cathode capacitance	0.035 pF	—
Grid-cathode capacitance	2.5 pF	—
Plate-grid capacitance	1.4 pF	—

TUBE TINKER

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

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