

ELECTRONIC TUBE REFERENCE

5675

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Coaxial metal-glass pencil UHF power triode for RF amplification, oscillation, and frequency multiplication.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5675	BASE PINS	4
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	3200 Ω
TRANSCONDUCTANCE	0.0062 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	30 mA
UHF medium-mu pencil triode	

Coaxial metal-glass pencil-type UHF medium-mu power triode for RF amplification, oscillation, and frequency multiplication.



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

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumOperatingFrequency	3300 MHz	—



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	—
Power Output	475 mW	CathodeDriveOscillator;1700MHz



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	2.3 pF	—
Output Capacitance	0.09 pF	—
Grid-to-Plate Capacitance	1.3 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	135 V	ClassA
Cathode Resistor	68 ohm	ClassA
Plate Current	24 mA	ClassA



SOURCE OPERATING CONDITIONS

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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	UHF Class-C RF amplifier / oscillator	ClassC

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum useful frequency	3000 MHz	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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
Plate voltage	300 V	Published operating table; OperatingPoint1
Frequency for operation at full ratings	1700 MHz	Continuous commercial service
Maximum plate-seal temperature	175 C	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	31 mA	Published operating table; OperatingPoint1
Plate current	25 mA	Published operating table; OperatingPoint1


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 3 of 4

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	135 V	AverageStatic
Cathode resistor	68 ohm	AverageStatic
Plate current	24 mA	AverageStatic
Frequency for full ratings	1700 MHz	RF
Maximum operating frequency reduced ratings	3000 MHz	RF
Useful power output	475 mW	RFAmplifier;CathodeDrive

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	6200 uS	AverageStatic
Amplification factor	20	AverageStatic
Minimum preheat time	60 s	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.4 pF	—
Grid-to-cathode capacitance	2.4 pF	—
Plate-to-cathode capacitance	0.09 pF	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 6 of 7

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

1971 RCA HB3 BINDER 6 OF 7

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Voltage	300 V	UHF pencil triode
Maximum Cathode Current	30 mA	UHF pencil triode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Dissipation	5 W	UHF pencil triode
Typical Plate Voltage	135 V	UHF pencil triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	20	UHF pencil triode
Transconductance	6200 μ S	UHF pencil triode
Grid-to-Plate Capacitance	1.4 pF	UHF pencil triode
Grid-to-Cathode Capacitance	2.4 pF	UHF pencil triode
Plate-to-Cathode Capacitance	0.09 pF	UHF pencil triode