



ELECTRONIC TUBE REFERENCE

5718

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Subminiature medium-mu triode for high-frequency oscillators and general-purpose 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

SECTION 1 Triode	
PLATE RESISTANCE	4150 Ω
TRANSCONDUCTANCE	0.0065 S
AMPLIFICATION FACTOR	27
MAXIMUM PLATE VOLTAGE	165 V
MAXIMUM PLATE DISSIPATION	3.3 W
MAXIMUM CATHODE CURRENT	22 mA
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
Electrical section extracted from supplied datasheet.	

The 5718 is a subminiature medium-mu triode designed for high-frequency oscillator or general-purpose amplifier service and can deliver about 0.9 watt at 500 MHz.



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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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Useful Power Output	600 mW	Oscillator
MaximumFrequencyFullInput	1000 MHz	—



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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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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	150 mA	—

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1958 Compagnie General

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1958 COMPAGNIE GENERAL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating Frequency	500 MHz	Oscillator
Useful Oscillator Output	600 mW	500MHz

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	27	—
Plate Resistance	4150 ohm	—
Transconductance	6500 uS	—

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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 amplifier / oscillator	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Useful operating frequency	500 MHz	—

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ELECTRON TUBE DATABASE

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1961 Tung Sol

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1961 TUNG SOL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	150 mA	Nominal
Plate voltage	165 V	Published operating table; OperatingPoint1
Plate voltage	100 V	Published operating table; OperatingPoint1
Plate voltage	150 V	Published operating table; OperatingPoint1
RF power output	0.9 W	500 MHz

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	22 mA	Published operating table; OperatingPoint1
Plate current	8.5 mA	Published operating table; OperatingPoint1
Plate current	20 mA	Published operating table; OperatingPoint1

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ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

1963 Mullard

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1963 MULLARD
Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	150 mA	—
Plate Voltage	100 V	—
Grid Voltage	-1.3 V	—
Plate Current	8.5 mA	—
Transconductance	5800 uS	—
MaximumOscillatorFrequency	500 MHz	—



SOURCE DATA APPENDIX

1963 Philips Electron Tubes Handbook V1

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V1
Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid capacitance with external screen	2.4 pF	Section1
Plate capacitance with external screen	2.4 pF	Section1
Grid-to-plate capacitance with external screen	1.3 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	RFAmplifier
Plate current	8.5 mA	RFAmplifier
Plate voltage	150 V	RFAmplifier
Plate current	13 mA	RFAmplifier
Oscillator frequency	500 MHz	Oscillator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5800 μ S	100VPlate
Plate resistance	4650 Ω	100VPlate
Amplification factor	27	Section1
Transconductance	6500 μ S	150VPlate
Plate resistance	4150 Ω	150VPlate


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1963 Philips Electron Tubes Handbook V3

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1963 PHILIPS ELECTRON TUBES HANDBOOK V3

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid capacitance with external shield	2.4 pF	Section1
Plate capacitance with external shield	2.4 pF	Section1
Grid-to-plate capacitance with external shield	1.3 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	RFAmplifier
Plate current	8.5 mA	RFAmplifier
Plate voltage	150 V	RFAmplifier
Plate current	13 mA	RFAmplifier
Oscillator frequency	500 MHz	Oscillator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5800 μ S	100VPlate
Plate resistance	4650 Ω	100VPlate
Transconductance	6500 μ S	150VPlate
Plate resistance	4150 Ω	150VPlate
Amplification factor	27	Section1


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1966 Tung Sol Electronic Tubes 3 of 4

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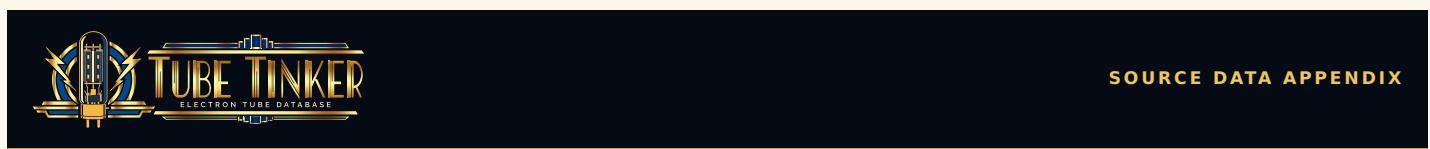
1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance without shield	1.4 pF	WholeTube
Input capacitance without shield	2.2 pF	WholeTube
Output capacitance without shield	0.7 pF	WholeTube

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	165 V	WholeTube

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	0.9 W	WholeTube
Maximum DC plate current	22 mA	WholeTube
Maximum DC grid current	5.5 mA	WholeTube
Maximum heater-cathode voltage	200 V	WholeTube
Plate voltage	100 V	ClassA1
Cathode bias resistance	150 ohm	ClassA1
Amplification factor	27	ClassA1
Plate resistance	4550 ohm	ClassA1



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1967 Mullard Receiving Tubes for Maintenance

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1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-Plate Capacitance	1.3 pF	PublishedCapacitance
Input Capacitance	2.3 pF	PublishedCapacitance
Output Capacitance	0.8 pF	PublishedCapacitance

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	100 V	PublishedCharacteristics
Grid Voltage	-1.3 V	PublishedCharacteristics
Plate Current	8.5 mA	PublishedCharacteristics
Transconductance	5800 uS	PublishedCharacteristics
Plate Resistance	4700 ohm	PublishedCharacteristics
Amplification Factor	27	PublishedCharacteristics

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Supply Voltage	330 V	AbsoluteRatings
Plate Voltage	165 V	AbsoluteRatings
Plate Dissipation	0.9 W	AbsoluteRatings



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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	—3.3 W	—
Maximum cathode current	—22 mA	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	4150 Ω	—
Transconductance	6500 μS	—
Amplification factor	27	—
Plate supply voltage	100 V	ClassA
Plate supply voltage	150 V	ClassA
Cathode resistor	150 Ω	ClassA
Cathode resistor	180 Ω	ClassA
Amplification factor	27	ClassA
Plate resistance	4650 Ω	ClassA
Plate resistance	4150 Ω	ClassA

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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	13 mA	—
Transconductance	6500 μ S	—
Amplification factor	27	—
Plate resistance	4150 ohm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Oscillator output power	0.9 W	500MHz

TUBE TINKER

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and their source documents.

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