ELECTRONIC TUBE REFERENCE

DC90

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Low-voltage miniature triode for battery-operated electronic service; available source material does not establish a narrower application confidently.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	1.4 V / 50 mA	**PARALLEL HEATER**	_ / _
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode

PLATE RESISTANCE	9800 Ω
TRANSCONDUCTANCE	0.0012 S
AMPLIFICATION FACTOR	11.8
MAXIMUM PLATE VOLTAGE	140 V
MAXIMUM PLATE DISSIPATION	0.6 W
MAXIMUM CATHODE CURRENT	5.5 mA

Published ratings and characteristics promoted from the printed technical data.

Battery triode designed as mixer, oscillator and amplifier for VHF/FM receivers.

SOURCE OPERATING CONDITIONS

1953 RFT Rundfunk Technik

SOURCE PDF

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Triode

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
HeaterVoltageNominal	**1.4 V**	Nominal
HeaterCurrentNominal	**50 mA**	Nominal
Maximum Plate Voltage	**90 V**	—
Maximum Plate Dissipation	**0.6 W**	—
Maximum Cathode Current	**5.5 mA**	—

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Transconductance	**1200 µS**	Typical
Amplification Factor	**11.8**	Typical
Plate Resistance	**9800 ohm**	Typical

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1963 Philips Electron Tubes Handbook V1

SOURCE PDF

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	**0.8 pF**	—
Plate capacitance	**1.3 pF**	—
Grid-to-plate capacitance	**3.3 pF**	—

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Plate voltage	**67.5 V**	Typical characteristics
Grid voltage	**0 V**	Typical characteristics
Plate current	**4.2 mA**	Typical characteristics
Plate voltage	**90 V**	SelfOscillatingFrequencyChanger
Oscillator voltage	**5.5 V**	SelfOscillatingFrequencyChanger
Grid resistor	**1 Mohm**	SelfOscillatingFrequencyChanger
No-load plate voltage	**140 V**	—
Maximum grid current	**5.5 mA**	—

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Transconductance	**1200 uS**	Typical characteristics
Noise figure	**18 dB**	SelfOscillatingFrequencyChanger

SOURCE OPERATING CONDITIONS

SOURCE PDF

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

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Chauffage : direct par C.C. Ve	**1.4 V**	Published datasheet condition

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
alimentation série ou pa- I,	**50 mA**	Published datasheet condition
Capacitances Cg	**0.8 pF**	Published datasheet condition
Cag	**3.3 pF**	Published datasheet condition
Vg = 40 67,5	**90 v**	Published datasheet condition
Vg = 0 0	**-3 V**	Published datasheet condition
la = 1,5 4,2	**3 mA**	Published datasheet condition
s = 0,9 1,2	**1.1 mA**	Published datasheet condition
Va	**90 V**	Published datasheet condition
Vose	**5.5 V**	Published datasheet condition
Rg	**1 MΩ**	Published datasheet condition
Published value	**10 V**	Published datasheet condition
L~ »	**1 A**	Published datasheet condition
I L/	**7 A**	Published datasheet condition
Ry	**4 A**	Published datasheet condition
T _	**4 V**	Published datasheet condition
DC	**90 A**	Published datasheet condition
Published value	**9.2 v**	Published datasheet condition
0 2 2 6	**8 V**	Published datasheet condition
U jort ™ Va -_	**-90 V**	Published datasheet condition
Published value	**3 A**	Published datasheet condition

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Vao = max.,	**140 V**	Published datasheet condition
Va = max. S	**0 V**	Published datasheet condition
Wa = max.,	**0.6 W**	Published datasheet condition
Ix = max,	**5.5 mA**	Published datasheet condition
Rg = max.,	**3 MΩ**	Published datasheet condition
Rg (Wge	**0.4 W**	Published datasheet condition
Rg (Wge0,4 W)	**10 MΩ**	Published datasheet condition

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

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