

ELECTRONIC TUBE REFERENCE

7475

Voltage Regulator electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
VOLTAGEREGULATOR

Cold-cathode gas-discharge voltage regulator for heaterless shunt stabilization or reference service in electronic power supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	A25.5-XIX	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Voltage Regulator	
REGULATOR VOLTAGE	95 V
MINIMUM REGULATOR CURRENT	1 mA
MAXIMUM REGULATOR CURRENT	8 mA
STARTING VOLTAGE	140 V
MAINTAINING VOLTAGE	95 V
DYNAMIC IMPEDANCE	300 Ω
Cold-cathode gas-filled Philips voltage stabilizer/reference tube.	

The Mullard 7475 is a neon-filled voltage-stabilising tube with a 90-110 V burning range.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

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

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 1 · Voltage Regulator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Running voltage minimum	90 V	VoltageRegulator
Running voltage maximum	110 V	VoltageRegulator
Striking voltage minimum	100 V	VoltageRegulator
Striking voltage maximum	135 V	VoltageRegulator
Extinction voltage minimum	85 V	VoltageRegulator
Extinction voltage maximum	110 V	VoltageRegulator
Lower stabilization current	1 mA	VoltageRegulator
AC resistance	300 Ω	VoltageRegulator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Quiescent current	4 mA	VoltageRegulator
Maximum permissible current	8 mA	VoltageRegulator

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Mullard Valve and Service Manual

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

1951 MULLARD VALVE AND SERVICE MANUAL

Section 1 · Voltage Regulator

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Burning Voltage Minimum	90 V	—
Burning Voltage Maximum	110 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Quiescent Current	4 mA	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1957 Philips Receiving and Amplifying Tubes

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

1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

Section 1 · Voltage Regulator

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maintaining/Reference Voltage	95 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum Current	1 mA	—
Maximum Current	8 mA	—
Ignition Voltage Maximum	140 V	—



SOURCE DATA APPENDIX

1963 Philips Electron Tubes Handbook V2

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V2

Section 1 · Voltage Regulator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maintaining voltage at 4 mA	95 V	—
Voltage regulation	—8 V	Ia=1-8mA



SOURCE DATA APPENDIX

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 · Voltage Regulator

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating voltage	100 V	—
Voltage at 4 mA	95 V	—
Regulation maximum	8 V	Ia1to8mA
Va (Ia ma)	212 ma	PublishedLine: Va (Ia=ϕ ma) 212 95 7
Vo (Ia	4 mA	PublishedLine: Vo (Ia=4 mA) = 95 Ve

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Starting voltage maximum	140 V	—
Anode current minimum	1 mA	—
Anode current maximum	8 mA	—
Courant moyen max.	4 mA	PublishedLine: Courant moyen max. &4 mA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ia max	8 mA	PublishedLine: Ia = max. 8 mA
Ig min	1 mA	PublishedLine: Ig min. 1 mA
Ia maX	8 mA	PublishedLine: Ia = maX,. 8 mA
Ia min	1 mA	PublishedLine: Ia min. 1 mA

TUBE TINKER

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