



ELECTRONIC TUBE REFERENCE

5644

Voltage Regulator electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

VOLTAGEREGULATOR

Rugged subminiature cold-cathode gas-filled voltage stabilizer maintaining roughly 90 V over approximately 5-25 mA.

GENERAL CHARACTERISTICS

BASE DESIGNATION	4N	BASE PINS	7
NOMINAL HEATER	– / –	PARALLEL HEATER	– / –
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Voltage Regulator	
REGULATOR VOLTAGE	90 V
MINIMUM REGULATOR CURRENT	5 mA
MAXIMUM REGULATOR CURRENT	25 mA
STARTING VOLTAGE	135 V
MAINTAINING VOLTAGE	90 V
Subminiature gas-filled shock- and vibration-resistant voltage stabilizer tube.	

Cold-cathode gas-filled glow-discharge voltage regulator, approximately 95 V.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Voltage Regulator

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Regulator maintaining voltage	90 V	Approximate published operating voltage
Regulator current	5 mA–25 mA	Published operating-current range
Ionization voltage	175 V	Published total-darkness test limit



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating current	5 mA	LowCurrentPoint
Operating current	25 mA	HighCurrentPoint
Maximum shunt capacitance	—0.1 μ F	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ignition voltage	—125 V	—
Voltage regulation	—5 V	—

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 · Voltage Regulator

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Gas	—

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maintaining voltage range	85-105 V	OperatingCurrentRange
Maintaining voltage end-of-life range	82-108 V	—
Regulation current range	5-25 mA	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum striking voltage	135 V	—

TUBE TINKER

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and their source documents.

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