



ELECTRONIC TUBE REFERENCE

0A2WA

Voltage Regulator electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

VOLTAGEREGULATOR

Ruggedized special-quality 150 V gas regulator for demanding military and industrial service, with published shock and vibration performance.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	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	150 V
MINIMUM REGULATOR CURRENT	5 mA
MAXIMUM REGULATOR CURRENT	30 mA
STARTING VOLTAGE	165 V
MAINTAINING VOLTAGE	150 V
<i>Special-quality shock- and vibration-resistant voltage stabilizer.</i>	

Special-quality ruggedized cold-cathode voltage stabilizer with approximately 150 V maintaining voltage.

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
Setting current	17.5 mA	NewTube
Setting voltage	150 V	NewTube
Operating current minimum	5 mA	—
Operating current maximum	30 mA	—
Maximum starting current	—75 mA	—
Maximum shunt capacitance	—0.1 μ F	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maintaining voltage at 5 mA	140–144 V	LifeRange
Maintaining voltage at 30 mA	153–158 V	LifeRange
Ignition voltage	—165 V	Maximum
Voltage regulation	5–8 V	I _a =5-30mA; life-dependent
Leakage current	—5 μ A	Maximum
Shock resistance	900 g	Approximate
Vibration resistance	2.5 g	Peak

1963 Philips Electron Tubes Handbook V3

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1963 PHILIPS ELECTRON TUBES HANDBOOK V3

Section 1 · Voltage Regulator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maintaining voltage nominal	150 V	VoltageRegulator
Regulation maximum	5 V	5To30mA
Noise output maximum	100 mV	VoltageRegulator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maintaining current minimum	5 mA	VoltageRegulator
Maintaining current maximum	30 mA	VoltageRegulator
Starting voltage maximum	165 V	VoltageRegulator
Starting current maximum	75 mA	10Seconds
Shunt capacitance maximum	0.1 µF	VoltageRegulator
Shock resistance approximately	900 g	SpecialQuality
Vibration resistance	2.5 g	SpecialQuality

TUBE TINKER

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