



ELECTRONIC TUBE REFERENCE

ZZ1010

Voltage Regulator electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

VOLTAGEREGULATOR

Rugged 81.8 V cold-cathode stabilizer with auxiliary anode for reliable starting and broad-current reference/regulator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
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	81.8 V
MINIMUM REGULATOR CURRENT	4 mA
MAXIMUM REGULATOR CURRENT	70 mA
STARTING VOLTAGE	105 V
MAINTAINING VOLTAGE	81.8 V
DYNAMIC IMPEDANCE	150 Ω

Cold-cathode voltage stabilizer with auxiliary anode, designed for stable reference/regulator service and high shock resistance.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 AEG

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

1953 AEG

Section 1 · Voltage Regulator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maintaining voltage minimum	81.1 V	Current5mA
Maintaining voltage nominal	81.8 V	Current5mA
Maintaining voltage maximum	82.6 V	Current5mA
Maintaining voltage minimum	83.6 V	Current30mA
Maintaining voltage nominal	84.4 V	Current30mA
Maintaining voltage maximum	85.2 V	Current30mA
Main-discharge striking voltage nominal	105 V	AverageIllumination
Main-discharge striking voltage maximum	112 V	AverageIllumination
Auxiliary-discharge striking voltage nominal	115 V	AverageIllumination
Auxiliary-discharge striking voltage maximum	120 V	AverageIllumination
Maximum voltage variation over regulation range	6.5 V	—
Maximum differential AC resistance	150 0hm	—
Temperature coefficient	-3 mV/°C	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating current minimum	4 mA	—
Operating current maximum	70 mA	—
Maximum starting current	200 mA	120s

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum cathode ignition-peak current	1 A	—
Minimum supply voltage	130 V	—
Maximum shock acceleration	3000 g	—
Maximum parallel capacitance without auxiliary current	25 nF	—

TUBE TINKER

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