



ELECTRONIC TUBE REFERENCE

4313C

Voltage Regulator electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

VOLTAGEREGULATOR

Double-gap cold-cathode gas-discharge relay combining switching action with voltage-regulator capability, using separate control and main discharge gaps.

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	75 V
STARTING VOLTAGE	150 V
MAINTAINING VOLTAGE	75 V
<i>Representative main gap; tube has separate control and main gas-discharge gaps.</i>	

Double-gap cold-cathode gas-filled relay usable also as a voltage regulator.

SOURCE OPERATING CONDITIONS

1946 Standard Telephone and Cables

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

1946 STANDARD TELEPHONE AND CABLES

Section 1 · Voltage Regulator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Nominal control gap breakdown voltage	70 V	Published datasheet value
Nominal control gap maintaining voltage	60 V	Published datasheet value
Nominal main gap maintaining voltage	75 V	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak control electrode current	30 mA	Published datasheet value

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Standard Valves

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

1947 STANDARD VALVES

Section 1 · Voltage Regulator

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-gap breakdown voltage	70 V	—
Control-gap maintaining voltage	60 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Main-gap minimum breakdown voltage	150 V	—
Main-gap maintaining voltage	75 V	—
Transfer current	5 uA	—
Main-gap deionization time	10 ms	—
Control-gap deionization time	3 ms	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak control-electrode current	30 mA	—
Maximum average control-electrode current	10 mA	1sAverage

TUBE TINKER

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