



6W4-GT

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HALF-WAVE VACUUM RECTIFIER

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 6.3 ac volts
 Current. 1.2 amp

Direct Interelectrode Capacitances (Approx.):^o

Heater to Cathode. 7.0 μf
 Plate to Heater
 and Cathode. 5.3 μf

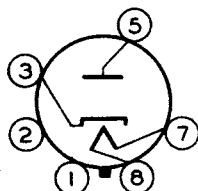
Mechanical:

Mounting Position. Any
 Maximum Overall Length 3-5/16"
 Maximum Seated Length. 2-3/4"
 Maximum Diameter 1-9/32"

Bulb T-9

Base Intermediate-Shell Octal 6-Pin
 Basing Designation for BOTTOM VIEW 4CG

Pin 1-No
 Connection
 Pin 2-No
 Connection



Pin 3-Cathode
 Pin 5-Plate
 Pin 7-Heater
 Pin 8-Heater

DAMPER SERVICE

Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE 3500* max. volts
 PEAK PLATE CURRENT 600 max. ma
 DC PLATE CURRENT 125 max. ma
 PEAK HEATER-CATHODE VOLTAGE:
 Heater negative with respect to cathode. 2100**max. volts
 Heater positive with respect to cathode. 100 max. volts

RECTIFIER SERVICE

Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE 1250 max. volts
 PEAK PLATE CURRENT 600 max. ma
 HOT-SWITCHING TRANSIENT PLATE CURRENT
 For duration of 0.2 second maximum . . . 3.5 max. amp
 DC OUTPUT CURRENT. 125 max. ma
 PEAK HEATER-CATHODE VOLTAGE:
 Heater negative with respect to cathode. 450 max. volts
 Heater positive with respect to cathode. 100 max. volts

^o With no external shield.

* This rating is applicable where the duty cycle of the voltage pulse does not exceed 15 percent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15% of one horizontal scanning cycle is 10 microseconds.

** The dc component must not exceed more than 450 volts.

← Indicates a change.

MARCH 1, 1951

TUBE DEPARTMENT
 RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA

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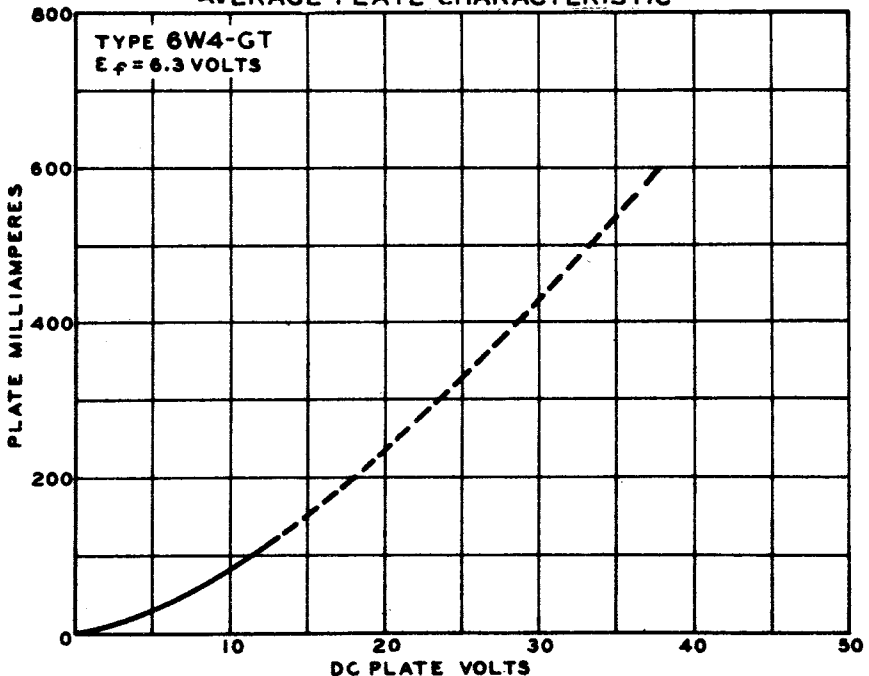
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HALF-WAVE VACUUM RECTIFIER

Typical Operation:

	<i>Half-Wave Rectifier (One Tube)</i>	<i>Full-Wave Rectifier (Two Tubes)</i>	
AC Plate-Supply Voltage (RMS) . .	350	-	volts
AC Plate-to-Plate Supply Voltage (RMS)	-	700	volts
Filter-Input Capacitor	20	20	μ f
Minimum Total Effective Plate- Supply Impedance Per Plate .	145	145	ohms
DC Output Current	125	250	ma
DC Output Voltage at Input to Filter (Approx.):			
At half-load cur. of { 62.5 ma.	390	-	volts
{ 125 ma.	-	395	volts
At full-load cur. of { 125 ma.	335	-	volts
{ 250 ma.	-	350	volts
Voltage Regulation (Approx.):			
Half-load to full-load current	55	45	volts

AVERAGE PLATE CHARACTERISTIC



92CM-7069T

MARCH 1, 1951

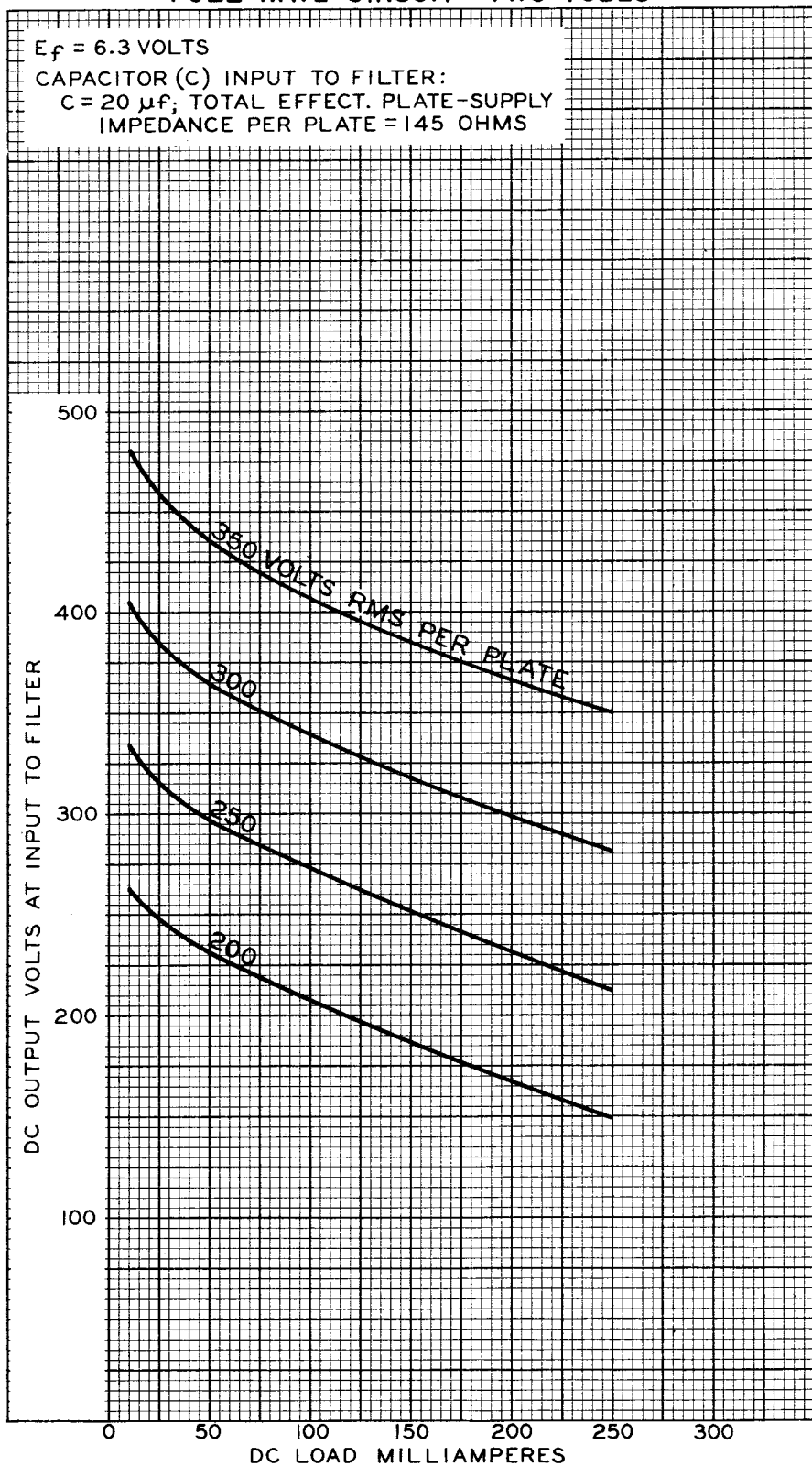
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OPERATION CHARACTERISTICS
FULL-WAVE CIRCUIT—TWO TUBES

OCT. 13, 1948

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-7091