HALF-WAVE VACUUM RECTIFIER
MINIATURE TYPE

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
Voltage: 117 ac or dc volts
Current: 0.04 amp

Mechanical:
Mounting Position: Any
Maximum Overall Length: 2-5/8"
Maximum Seated Length: 2-3/8"
Maximum Diameter: 3-4"
Bulb: T-5-1/2
Base: Miniature Button 7-Pin
Basing Designation for BOTTOM VIEW: 4CB

Pin 1 - Internal Con.-
Do Not Use
Pin 2 - No Connection
Pin 3 - Heater
Pin 4 - Heater
Pin 5 - Plate
Pin 6 - Cathode
Pin 7 - No Con.-

HALF-WAVE RECTIFIER

Maximum Ratings, Design-Center Values:
PEAK INVERSE PLATE VOLTAGE: 330 max. volts
PEAK PLATE CURRENT: 540 max. ma
DC OUTPUT CURRENT: 90 max. ma
HOT-SWITCHING TRANSIENT PLATE CURRENT:
For duration of 0.2 second maximum: 2.5 max. amp
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode: 175 max. volts
Heater positive with respect to cathode: 100 max. volts

Typical Operation with Capacitor-Input to Filter:
AC Plate-Supply Voltage (RMS): 117 volts
Filter-Input Capacitor: 30 μf
Min. Total Effective Plate-Supply Impedance: 20 ohms
DC Output Current: 90 ma
DC Output Voltage at Input to Filter (Approx.):
At half-load current (45 ma.): 130 volts
At full-load current (90 ma.): 110 volts
Voltage Regulation (Approx.):
Half-load to full-load current: 20 volts

Indicates a change.

JULY 3, 1950
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AVERAGE PLATE CHARACTERISTIC

E_P = 117 VOLTS

PLATE MILLIAMPERES

PLATE VOLTS

0 10 20 30 40 50
92CM-6627T

OPERATION CHARACTERISTICS
HALF-WAVE RECTIFIER

E_P = 117 VOLTS
PLATE VOLTS = 117 RMS
TOTAL EFFECTIVE PLATE-SUPPLY IMPEDANCE = 20 OHMS
C = CAPACITOR INPUT TO FILTER

DC OUTPUT VOLTS AT INPUT TO FILTER

50 100 150

DC LOAD MILLIAMPERES

0 50 100
92CM-6633R1

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