Half-Wave Vacuum Rectifier

For Television Damper Service

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
Voltage (AC or DC) .................. 6.3 ± 10% volts
Current at 6.3 volts .................. 1.2 amp
Direct Interelectrode Capacitances
(Approx.):
Plate to cathode and heater .......... 5 μf
Cathode to plate and heater .......... 8.5 μf
Heater to cathode .................. 4 μf

Mechanical:
Operating Position .................. Any
Maximum Overall Length ............ 3-5/16"
Maximum Seated Length ............. 2-3/4"
Maximum Diameter .................. 1-9/32"
Dimensional Outline ................ See General Section
Bulb. ................................ Intermediate-Shell Octal 5-Pin,
Arrangement 2 (JEDEC Group 1, No.85-82)
Base. .................. Intermediate-Shell Octal 5-Pin,
Arrangement 2 (JEDEC Group 1, No.85-82)
Basing Designation for BOTTOM VIEW ........ 4CG

Pin 2—Internal Connection— Do Not Use b
Pin 3—Cathode

Pin 5—Plate
Pin 7—Heater
Pin 8—Heater

DAMPER SERVICE

Maximum Ratings, Design—Maximum Values:
For operation in a 525-line, 30-frame system c
PEAK INVERSE PLATE VOLTAGE d .................. 5000 max. volts
PEAK PLATE CURRENT .................. 1000 max. ma
DC PLATE CURRENT .................. 165 max. ma
PLATE DISSIPATION .................. 5.3 max. watts
PEAK HEATER–CATHODE VOLTAGE:
Heater negative with respect to cathode. 5000 max. volts
Heater positive with respect to cathode. 300f max. volts

Characteristics, Instantaneous Test Condition:
Tube Voltage Drop for plate ma. = 250 . . 32 volts

b Without external shield.

f Socket terminals 1, 2, 4 and 6 should not be used as tie points.

As described in *Standards of Good Engineering Practice Concerning Television Broadcast Stations,* Federal Communications Commission.
This rating is applicable when the duty cycle of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

- The dc component must not exceed 900 volts.
- The dc component must not exceed 100 volts.