



12D4

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HALF-WAVE VACUUM RECTIFIER

Intended for TV damper service in equipment having series heater-string arrangement

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage 12.6 ac or dc volts

Current 0.6 amp

Warm-up time (Average) 11 sec

For definition of heater warm-up time and method of determining it, see sheet HEATER WARM-UP TIME MEASUREMENT at front of this Section.

Direct Interelectrode Capacitances (Approx.):^o

Plate to cathode and heater 6 $\mu\mu\text{f}$

Cathode to plate and heater 8 $\mu\mu\text{f}$

Heater to cathode 3 $\mu\mu\text{f}$

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

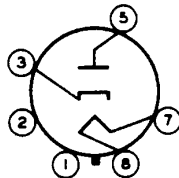
Bulb T9

Base Intermediate-Shell Octal 5-Pin, Arrangement 2 (JEDEC Group 1, No. B5-82), Intermediate-Shell Octal 6-Pin, Arrangement 1 (JEDEC Group 1, No. B6-8), Short Intermediate-Shell Octal 5-Pin with External Barriers, Arrangement 2 (JEDEC Group 1, No. B5-85), or Short Intermediate-Shell Octal 6-Pin with External Barriers, Arrangement 1 (JEDEC Group 1, No. B6-60)

Basing Designation for BOTTOM VIEW 4CG

Pin 1 \blacklozenge - Same as Pin 2

Pin 2 - Internal Connection - Do Not Use \bullet



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 \square

PEAK INVERSE PLATE VOLTAGE* 4400 max. volts

PEAK PLATE CURRENT 900 max. ma

DC PLATE CURRENT 155 max. ma

$\circ, \blacklozenge, \bullet, \square, *$: See next page.

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PLATE DISSIPATION. 5.5 max. watts
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode. 4400[▲] max. volts
Heater positive with respect to cathode. 300^{*†} max. volts

- Without external shield.
- ◆ On the 5-pin bases, pin 1 as well as pins 4 and 6 is omitted.
- 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.

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TENTATIVE DATA

AVERAGE PLATE CHARACTERISTIC

