



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	μ f
Cathode to plate and heater.	8	μ f
Heater to cathode.	3	μ f

Mechanical:

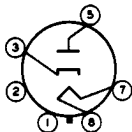
Operating Position	Any
Maximum Overall Length	3-5/16"
Maximum Seated Length.	2-3/4"
Maximum Diameter	1-9/32"
Dimensional Outline.	See General Section
Bulb	T9

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^o

PEAK INVERSE PLATE VOLTAGE*	4400	max.	volts
PEAK PLATE CURRENT.	900	ma	
DC PLATE CURRENT.	155	max.	ma

^o, \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

