

Half-Wave Vacuum Rectifier

GENERAL DATA

Electrical:

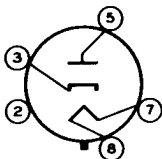
Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC)	6.3 ± 0.6	volts
Current at heater volts = 6.3	1.600	amp
Peak heater-cathode voltage:		
Heater negative with respect to cathode ^a	5500 ^b max.	volts
Heater positive with respect to cathode	300 ^c max.	volts
Direct Interelectrode Capacitances (Approx.): ^d		
Plate to cathode and heater	8.5	μf
Cathode to plate and heater	11.5	μf
Heater to cathode	4	μf

Mechanical:

Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	3-13/16"
Maximum Seated Length	3-1/4"
Maximum Diameter	1-9/32"
Bulb	T9
Bases (Alternates):	
Intermediate-Shell Octal with External Barriers:	
5-Pin, Arrangement 2 (JEDEC Group 1, No. B5-147)	
Short Intermediate-Shell Octal with External Barriers:	
5-Pin, Arrangement 2 (JEDEC Group 1, No. B5-85)	
Basing Designation for BOTTOM VIEW	4CG

Pin 2 - Do Not Use^e
 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^f

PEAK INVERSE PLATE VOLTAGE ^a	5500 max.	volts
PEAK PLATE CURRENT	1200 max.	ma
DC PLATE CURRENT	190 max.	ma
PLATE DISSIPATION	6.5 max.	watts

Characteristics, *Instantaneous Value*:

Tube Voltage Drop for plate ma. = 250.	25	volts
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6CQ4

- a 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.
- b The dc component must not exceed 900 volts.
- c The dc component must not exceed 100 volts.
- d Without external shield.
- e Socket terminals 1, 2, 4, and 6 should not be used as tie points.
- f As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

