6CQ4

Half-Wave Vacuum Rectifier

GENERAL DATA

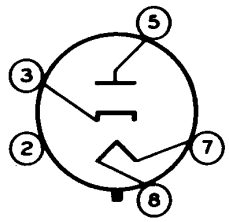
Electrical:

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	μμf
Cathode to plate and heater	11.5	μμf
Heater to cathode	4	μμf

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

[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.