17H3

HALF-WAVE VACUUM RECTIFIER

9-PIN MINIATURE TYPE

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

GENERAL DATA

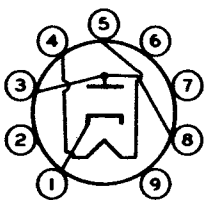
Electrical:

Heater, for Unipotential Cathode:		
Voltage (AC or DC)	17.5	volts
Current	0.3 ± 6%	amp
Warm-up time (Average)	11	sec
Direct Interelectrode Capacitances (Approx.):◇		
Plate to cathode and heater	4	μμf
Cathode to plate and heater	5.5	μμf
Heater to cathode	2	μμf

Mechanical:

Operating Position	Any
Maximum Overall Length	2-5/8"
Maximum Seated Length	2-3/8"
Length, Base Seat to Bulb Top (Excluding tip)	2" ± 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline	*See General Section*
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW	9FK

Pin 1 - Cathode
Pin 2 - Internal Connection—Do Not Use◆
Pin 3 - Plate



Pin 4 - Heater
Pin 5 - Heater
Pin 6 - Same as Pin 2
Pin 7 - Same as Pin 2
Pin 8 - Plate
Pin 9 - Same as Pin 2

DAMPER SERVICE

Maximum Ratings, *Design-Maximum Values:*

For operation in a 525-line, 30-frame system□

PEAK INVERSE PLATE VOLTAGE	2000■	max.	volts
PEAK PLATE CURRENT	450	max.	ma
DC PLATE CURRENT	75	max.	ma
PLATE DISSIPATION	3	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	2000*	max.	volts
Heater positive with respect to cathode	200†	max.	volts

Characteristics:

Tube-Voltage Drop for plate ma. = 140	22	volts

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o Without external shield.

♦ Socket terminals 2,6,7, and 9 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 where 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 500 volts.

† The dc component must not exceed 100 volts.