Half-Wave Vacuum Rectifier

NOVAR TYPE

"PRESSURE-WELDED" CATHODE COATING

For Color-TV Damper-Diode Applications

ELECTRICAL CHARACTERISTICS

Bogey Values

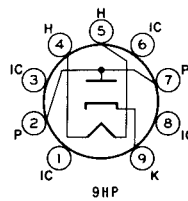
Heater Voltage (AC or DC)	E_h	6.3	V
Heater Current	I_h	2.4	A
Direct Interelectrode Capacitances			
Without external shield			
Plate to cathode and heater	$c_{p(k+h)}$	20	pF
Cathode to plate and heater	$c_{k(p+h)}$	18	pF
Heater to cathode	c_{h-k}	4.0	pF
Instantaneous Tube Voltage Drop	e_b	10	V
For instantaneous plate current (i_b) = 350 mA			

MECHANICAL CHARACTERISTICS

Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	3.005 in
Maximum Seated Length	2.625 in
Maximum Diameter	1.188 in
Dimensional Outline	See *General Section*
Envelope	T9
Base	Small-Button Novar 9-Pin With Exhaust Tip (JEDEC E9-89)

TERMINAL DIAGRAM (Bottom View)

Pin 1 – Do Not Use
Pin 2 – Plate
Pin 3 – Do Not Use
Pin 4 – Heater
Pin 5 – Heater
Pin 6 – Do Not Use
Pin 7 – Plate
Pin 8 – Do Not Use
Pin 9 – Cathode



9HP

DESIGN-MAXIMUM RATINGS

For operation as a Damper Tube in Color TV Receivers utilizing a 525-line, 30-frame system

Peak Inverse Plate Voltage	$-e_{bm}$	5500[a]	V
Heater-Cathode Voltage			
Peak	e_{hkm}	+300	V
		-5500	V
Average	$E_{hk(av)}$	+100	V
		-900	V
Heater Voltage (AC or DC)	E_h	5.7 to 6.9	V

Plate Current			
Peak	i_{bm}	1700	mA
Average	$I_{b(av)}$	400	mA
Plate Dissipation	P_b	12	W

[a] This rating is applicable when the duration of the voltage pulse does not exceed 15% of one horizontal scanning cycle. In a 525-line, 30-frame system, 15% of one horizontal scanning cycle is 10 μs.

OPERATING CONSIDERATIONS

Socket terminals 1, 3, 6, and 8 should not be used as tie points for external-circuit components. It is recommended that these socket tabs be removed to reduce the possibility of arc-over and to minimize leakage.

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