Half-Wave Vacuum Rectifier

Novar Type

For Black-and-White-TV	Damper Di	ode Applica	itions				
ELECTRICAL CHARACTER	ISTICS - Bog	ey Values					
Heater Voltage, ac or dc Eh		6.3	V				
Heater Current I_h		1.2	A				
Direct Interelectrode Capacitances:							
Plate to cathode and heater	c _{p(k+h)}	6.5	pF				
Cathode to plate and heater	C1 (.1)	9.0	рF				
Heater to cathode	c _{k(p+h)} c _{hk}	3.0	рF				
Instantaneous Tube Voltage Drop for instantane- ous plate current		16	v				
$(i_b) = 350 \text{ mA} \dots$	$^{ m e}{}_{ m b}$	10	V				
MECHANICAL CHARACTERI	STICS						
Maximum Overall Length (l_m)		3.410in.(86.6)	1 mm)				
Maximum Seated Length (lsm)	• • • • • • • • •	3.030in. 76.96	3 mm)				
Maximum Diameter (d _m) 1.188in.(30.1 mm)							
Envelope JEDEC Designation T9							
Baseb Small-Button Novar 9-Pin with Exhaust Tip (JEDEC Designation E9-89)							
Terminal Connections (See TERMINAL DIAGRAM)JEDEC Designation 9HP							
Type of Cathode		Coated Unipote	ntial				
Operating Position							
MAXIMUM RATINGS - Design-Maximum Values ^c For operation as a Damper Tube in Black-and-White-TV Receivers utilizing a 525-line, 30-frame system ^d							
Peak Inverse Plate Voltage.		5200 e	V				
Heater-Cathode Voltage:	bm	,					
Peak	·· ^e hkm	\begin{cases} + 300 \\ - 5200 \end{cases}	V V				
Averagef	·· E _{hk(av)}	\(\) + 100	V				
Heater Voltage	E _h	(- 900 5.7 to 6.9	V V				
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	\mathbf{P}	late	Current	:
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Peak	i _{bm}	1200	mA
Average f	I _{b(av)}	250	mA
Plate Dissipation	Ph	6.5	W
Envelope Temperature (at hottest point on envelope surface)		220	°C

^aMeasured without external shield in accordance with the current issue of EIA Standard RS-191.

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.

TERMINAL DIAGRAM (Bottom View)

Pin 1 - Do Not Use

Pin 2 - Plate

Pin 3 - Do Not Use

Pin 4 - Heater

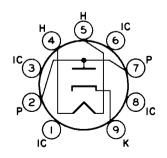
Pin 5 - Heater

Pin 6 - Do Not Use

Pin 7 - Plate

Pin 8 - Do Not Use

Pin 9 - Cathode



JEDEC 9HP

^bDesigned to mate with Novar 9-Contact Socket generally available from your local RCA Distributor.

cAs defined in the current issue of EIA Standard RS-239.

dAs described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.

^eThis 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% on one horizontal scanning cycle is $10~\mu s$.

Measured with a dc meter.