Half-Wave Vacuum Rectifier

Novar Type

Heater Current Ih 1.2 A Direct Interelectrode Capacitances: Plate to cathode and heater	For Black-and-White-TV	Damper D	iode Applica	tions
Heater Current Ih	ELECTRICAL CHARACTER	ISTICS - Bos	gey Values	
Direct Interelectrode Capacitances: Plate to cathode and heater	Heater Voltage, ac or dc Eh		6.3	V
Plate to cathode and heater	Heater Current Ih		1.2	A
Cathode to plate and heater				
Cathode to plate and heater		c _{p(k+h)}	6.5	pF
Heater to cathode			9.0	pF
Instantaneous Tube Voltage Appendix Ap	Heater to cathode		3.0	pF
Maximum Overall Length (l _m) 3 410in.(86.61 mm) Maximum Seated Length (l _{sm}) 3.030in.76.96 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 Unipotential Operating Position Any MAXIMUM RATINGS - Design-Maximum Valuesc For operation as a Damper Tube in Black-and-White-TV Receivers utilizing a 525-line, 30-frame systemd Peak Inverse Plate Voltage -ebm Heater-Cathode Voltage: 6+300 Peak -5200 V -5200 V	age Drop for instantane- ous plate current		16	v
Maximum Seated Length (lsm)	MECHANICAL CHARACTER	ISTICS		
Peak Inverse Plate Voltagee bm 5200e V Heater-Cathode Voltage: Peak	Maximum Seated Length (l _{sm}) Maximum Diameter (d _m) Envelope	on Novar 9-P (JEDECJEDE	3.030in. 76.96 1.188in. (30.) DEC Designation in with Exhaus Designation Education Education Coated Unipote Coated Unipote Colless calues calu	6 mm) 1 mm) on T9 t Tip 9-89) 9HP ential
Heater-Cathode Voltage: Peakehkm {+300 V -5200 V				
Peakehkm {-5200 V		е _{bm}	5200€	V
- 5200 V		е	∫+ 300	v
1+100 V	1 can	hkm	(- 5200	V
Averager	Averagef	E _{hk(av)}	\begin{cases} + 100 \\ - 900 \end{cases}	v v
Heater Voltage E _h 5.7 to 6.9 V	Heater Voltage	E _h	5.7 to 6.9	V

Plate Current:

Peak	i _{bm}	1200	mΑ
Average f	I _{h(av)}	250	mA
Plate Dissipation		6.5	W
Envelope Temperature (at hot- test point on envelope surface)	T	220	οС

^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

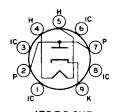
Pin 5 - Heater

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 52-line, 30-frame system, 15% on one horizontal scanning cycle is $10~\mu s$.

Measured with a dc meter.