Half-Wave Vacuum Rectifier

NOVAR TYPE

- Top Cap Cathode Connection
- Pressure-Welded Cathode Coating
- **RCA Dark Heater**
- Voltage Drop: Eb = 25V for $I_b = 800$ mA

ELECTRICAL CHARACTERISTICS — Bogey Values

Heater Voltage, ac or dc	$E_{\mathbf{h}}$	6.3	V
Heater Current	Ih	2.3	Α
Direct Interelectrode			
Capacitances: a			
Plate to cathode and heater.	c _{p(k+h)}	17.0	рF
Cathode to plate and heater	ck(p+h)	13.0	pF
Heater to cathode	^c h-k	4.4	рF
Instantaneous Tube Voltage			•
Drop for instantaneous			
plate current (ib) = 800 mA	e _b	25	V

MECHANICAL CHARACTERISTICS

Maximum Overall Length	3.850 in (97.79 mm)
Maximum Seated Length	3.470 in (88.1 mm)
Maximum Diameter	1.188 in (30.1 mm)
Envelope	JEDEC T9
Top Cap Small embossed (JEDEC	C1-2, C1-3 or C1-33)
Base b Small-Button Novar 9	-Pin with Exhaust Tip
	(JEDEC E9-89)
Terminal Diagram	JEDEC 9GD
Type of Cathode	Coated Unipotential
Operating Position	Anv

MAXIMUM RATINGS — Design-Maximum Values^C

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

Peak Inverse Plate Voltagee _{bm}	6500 d	V
Heater-Cathode Voltage:	(
Peakehkm	+300 -6500 +100 -900	V V
Average ^e E _{hk(av)}	\ \ \ +100 \ \ \ -900	V

Heater Voltage, ac or dc	E _h	5.7 to 6.9	V
Plate Current:			
Peak	i _{bm}	1800	mA
Average ^e	$I_{b(av)}$	400	mA
Plate Dissipation	P_b	11.0	W
Envelope Temperature (at			
hottest point on envelope			
surface)	$T_{\mathbf{E}}$	220	oC

- **a** Measured without external shield in accordance with the current issue of EIA Standard RS-191B.
- **b** Designed to mate with Novar 9-Contact Socket generally available from your local RCA Distributor.
- c As defined in the current issue of EIA Standard RS-239A.
- d 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 $10 \mu s$.
- e Measured with a dc meter.

OPERATING CONSIDERATIONS

Socket terminals 1, 3, 6, 8 and 9 should not be used as tie points for external-circuit components. It is recommended that the socket tabs be removed to reduce the possibility of arc-over and to minimize leakage.

TERMINAL DIAGRAM - JEDEC 9GD (Bottom View)

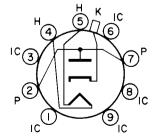
Pin 1 - Do Not Use

Pin 2 - Plate

Pin 3 - Do Not Use

Pin 4 - Heater

Pin 5 - Heater



Pin 6 - Do Not Use

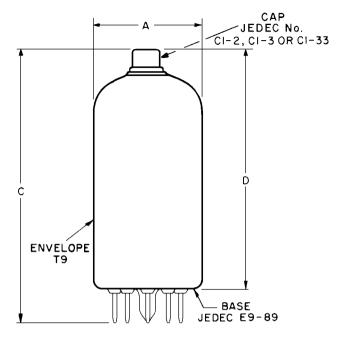
Pin 7 - Plate

Pin 8 - Do Not Use

Pin 9 - Do Not Use

Cap - Cathode

DIMENSIONAL OUTLINE



92CS-17941

	INCHES		MILLIMETERS			
DIMENSION	Min.	Nom.	Max.	Min.	Nom.	Max.
А	1.062*	_	1.188	27.0*	_	30.1
С	_	_	3.850	_	_	97.79
D	_	_	3.470	_	_	88.1

MILLIMETER DIMENSION DERIVED FROM INCH DIMENSION

^{*}Applies to the minimum diameter except in the area of the seal.