Half-Wave Vacuum Rectifier

9-PIN MINIATURE TYPE

GENERAL DATA

	Electrical:				+
	Filament, Coated:				
	Voltage (AC)	Min. 1.05	Aυ. 1.25	Max. 1.45	volts
	Current at 1.25 volts Direct Interelectrode Capacitance (Ap Plate to filament & internal shield	prox.):	0.2 . 1	_	amp μμf
	Mechanical:				
	Operating Position	Se (JEDEC al 9-Pi	0.750 ee <i>Geno</i> No.C1-	7/16" ± 0" to 0 eral Se -2 or 0 DEC No.	0.875" ection [6-1/2 [1-33]
	Pin 1-Filament, Internal Shield Pin 2-Filament Pin 3-Limited Connection Pin 4-Same as Pin 1	Pin Pin Pin Pin	6 – Sar 7 – Sar 8 – Sar	me as Pi me as Pi me as Pi me as Pi me as Pi ate	n 1 n 3 n 2
PULSED-RECTIFIER SERVICE -					
Maximum Ratings, Design-Maximum Values:					
	For operation in a 525-line, 30-frame system ^c				
	INVERSE PLATE VOLTAGE: Total dc and peak d				volts volts ma ma
	Characteristics, Instantaneous Value:				
	Tube Voltage Drop for plate ma. = 7.		100		volts
<u> </u>	 Without external shield. See Operating Considerations. As described in "Standards of Good Engineer vision Broadcast Stations," Federal Commund The duration of the voltage pulse must no horizontal scanning cycle. In a 525-lincent of one horizontal scanning cycle is 1 	ot excee e, 30-fi 0 micros	d 15 pe rame sy seconds	r cent ystem, :	of one 15 per
		-	← Indic	ates a	change.

OPERATING CONSIDERATIONS

Socket Connections. Socket terminals 3 and 7 may be used as tie points for components at or near filament potential; otherwise, do not use.

Measurement of Filament Voltage. To measure the filament voltage when the filament is at a high dc potential with respect to ground, it is recommended that a simple method utilizing visual comparison of the filament temperature be used. The color temperature of the filament, operating from a pulse-or-rf-power source, may be checked by observing in a darkened room the reflection of the incandescent filament upon the surface of the internal shield. A visual comparison of this color temperature with that obtained when the filament of another IX2B is operated from a dc or low-frequency ac supply of I.25 volts, provides a convenient means for adjusting the amount of excitation to produce I.25 volts (rms) at the filament terminals.

The high voltages at which the 1%2B is operated are very dangerous. Great care should be taken in the design of apparatus to prevent the operator from coming in contact with these high voltages. Particular care against fatal shock should be taken in the measurement of filament voltage. Under all circumstances, circuit parts which may be at high potentials should be enclosed or adequately insulated.

**I rays. The voltages employed in some television receivers and other high-voltage equipment are sufficiently high that high-voltage rectifier tubes may produce *I rays* which can constitute a health hazard unless such tubes are adequately shielded. Relatively simple shielding should prove adequate, but the need for this precaution should be considered in equipment design.