1X2

HALF-WAVE VACUUM RECTIFIER

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

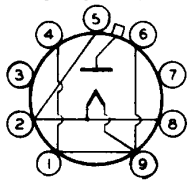
Filament, Coated:		
Voltage	1.25	ac volts
Current	0.2	amp
Direct Interelectrode Capacitance (Approx.):[o]		
Plate to Filament	1	μμf

[o] With no external shield.

Mechanical:

Mounting Position	Any
Overall Length	2-11/16 ± 1/8"
Maximum Diameter	7/8"
Bulb	T-6-1/2
Cap	Skirted Miniature, JETEC C1-33
Base	Small-Button Noval 9-Pin
Basing Designation for BOTTOM VIEW	9Y

Pin 1 - Filament, Internal Shield
Pin 2 - Filament
Pin 3 - See NOTE
Pin 4 - Same as Pin 1



Pin 5 - Same as Pin 2
Pin 6 - Same as Pin 1
Pin 7 - Same as Pin 3
Pin 8 - Same as Pin 2
Pin 9 - Same as Pin 1
Cap - Plate

NOTE: May be connected to filament; otherwise, do not use.

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Maximum Ratings, *Design-Center Values*:

PEAK INVERSE PLATE VOLTAGE	15000 max.	volts
PEAK PLATE CURRENT	10 max.	ma
AVERAGE PLATE CURRENT	1 max.	ma
FREQUENCY OF SUPPLY VOLTAGE	300 max.	kc

OPERATING NOTES

When the filament is supplied from an rf power source which is at a high dc potential above ground, adjustment of the filament voltage by direct measurement is usually impractical. However, a simple method utilizing visual comparison of filament temperatures can be used for adjustment of filament power. The color temperature of the filament operating from an rf power source may be checked visually 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 1X2 is operated from a dc or low-frequency ac supply of 1.25 volts, provides a convenient means for adjusting the amount of rf excitation

1X2

RCA

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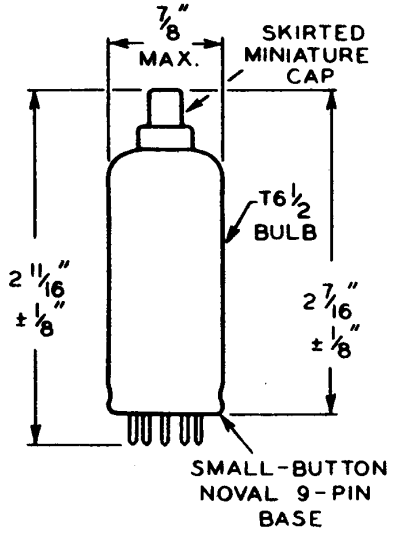
to produce 1.25 volts (rms) at the filament terminals.

The voltages employed in some television receivers and other high-voltage equipment are sufficiently high that high-voltage rectifier tubes may produce soft x-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.

The AVERAGE PLATE CHARACTERISTIC curve shown for type 1B3-GT also applies to the 1X2 within ratings



TUBE DEPARTMENT
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