

The high voltages at which the 1G3GT/1B3GT is operated are very dangerous. Great care should be taken during the adjustment of circuits. The tube and its associated apparatus, especially all parts which may be at high potential with respect to ground, should be housed in a protective enclosure. The protective housing should be designed with interlocks so that personnel cannot possibly come in contact with any high-potential point in the electrical system. The interlock devices should function to break the primary circuit of the high-voltage supply when any gate or door on the protective housing is opened, and should prevent the closing of this primary circuit until the door is locked again.

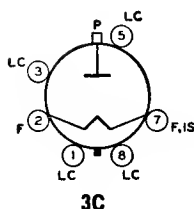
It should be noted that high voltages may appear at normally low-potential points in the circuit as a result of capacitor breakdown or incorrect circuit connections. Therefore, before any part of the circuit is touched, the power-supply switch should be turned off and both terminals of any capacitor should be grounded.

Operation of the 1G3GT/1B3GT with a plate voltage above approximately 16000 volts (absolute value) results in the production of X-rays which can constitute a health hazard on prolonged exposure at close range unless the tube is adequately shielded. Relatively simple shielding should prove adequate, but the need for this precaution should be considered.

Refer to chart at end of section.	1G4GT
Refer to chart at end of section.	1G5G
Refer to chart at end of section.	1G6GT
Refer to chart at end of section.	1H4G
Refer to chart at end of section.	1H5GT
Refer to chart at end of section.	1H6G
Refer to chart at end of section.	1J3
Refer to chart at end of section.	1J5G
Refer to chart at end of section.	1J6G
	1J6GT
Refer to chart at end of section.	1K3

HALF-WAVE VACUUM RECTIFIER

1K3/1J3



Glass octal type used as a rectifier in high-voltage pulse circuits of black-and-white television receivers. Plate connection is cap at top of bulb. Socket terminals 1, 3, 4, 5, 6, and 8 may be connected to socket terminal 7 or to a corona shield which is connected to socket terminal 7. Socket terminals 4 and 6 may be used as tie points for components at or near filament potential.

Outlines section, 14B; requires octal socket. For high-voltage and X-ray safety considerations, refer to type 1G3GT/1B3GT.

Filament Voltage (ac/dc)	1.25	volts
Filament Current	0.2	ampere
Direct Interelectrode Capacitance (Approx.):		
Plate to Filament and Internal Shield	1.6	pF

* Under no circumstances should the filament voltage be less than 1.05 volts or greater than 1.45 volts.

Pulsed Rectifier

For operation in a 525-line, 30-frame system

MAXIMUM RATINGS (Design-Maximum Values)

Peak Inverse Plate Voltage#	26000*	volts
Peak Plate Current	50	mA
Average Plate Current	0.5	mA

CHARACTERISTICS, Instantaneous Value

Tube Voltage Drop for plate current of 7 mA	225	volts
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Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).

* The dc component must not exceed 22000 volts.

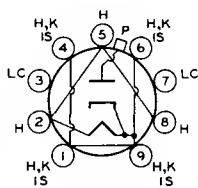
1L6	Refer to chart at end of section.
1LA4	Refer to chart at end of section.
1LA6	Refer to chart at end of section.
1LB4	Refer to chart at end of section.
1LC5	Refer to chart at end of section.
1LC6	Refer to chart at end of section.
1LD5	Refer to chart at end of section.
1LE3	Refer to chart at end of section.
1LG5	Refer to chart at end of section.
1LH4	Refer to chart at end of section.
1LN5	Refer to chart at end of section.
1N2A	Refer to chart at end of section.
1N5GT	Refer to chart at end of section.
1N6G	Refer to chart at end of section.
1P5GT	Refer to chart at end of section.
1Q5GT	Refer to chart at end of section.
1R5	Refer to chart at end of section.

1S2A/DY87

HALF-WAVE
VACUUM RECTIFIER

Miniature type used in high-voltage, low-current applications in television scanning circuits. Outlines section, 7F; requires miniature 9-contact socket. Socket terminals 3 and 7 may be used as tie points for components at or near heater potential. For high-voltage considerations, refer to type 1G3GT/1B3GT.

Heater Voltage (ac/dc)	1.4	volts
Heater Current	0.55	ampere
Direct Interelectrode Capacitance:		
Plate to cathode and heater	1.8	pF



9DT