

September 15, 1964

DUAL TRIODE TYPE 6GL7

The 6GL7 is a dual triode with dissimilar sections designed for use in television receivers. High mu triode No. 1 (Pins No. 4, 5 & 6) is designed for service as a vertical deflection oscillator. Triode No. 2 (Pins No. 1, 2 & 3) is designed for operation as a high efficiency vertical deflection output amplifier and has a low mu.

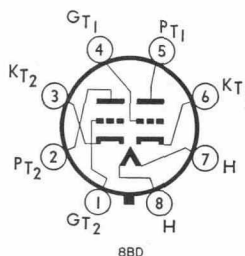
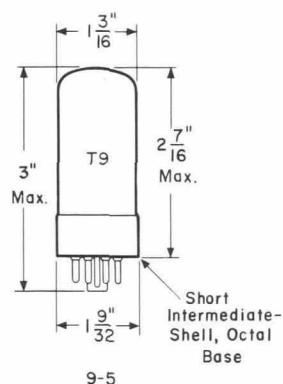
ELECTRICAL

Cathodes Coated Unipotential Heater:
Voltage (ac or dc) $6.3 \pm 10\%$ Volts
Current 1.05 Ampere
Direct Interelectrode Capacitances (Unshielded):

	Unit 1	Unit 2
Grid to Plate	4.0	8.0 pf
Input	2.2	6.0 pf
Output	0.6	1.3 pf

MECHANICAL

Bulb T-9
Base Short Intermediate Shell Octal (JEDEC B8-58)
Outline 9-5
Basing 8BD
Mounting Position Any



MAXIMUM RATINGS

Design Maximum Values (Note 1)

	Triode No. 1 as Vertical Deflection Oscillator	Triode No. 2 as Vertical Deflection Amplifier	
Plate Voltage	350	550	max. Volts
Peak Positive Pulse Plate Voltage (Abs. Max.)	—	1500	max. Volts
Peak Negative Pulse Grid Voltage	400	250	max. Volts
Plate Dissipation (Note 2)	1.0	10	max. Watts
Cathode Current	—	50	max. Ma.
Peak Cathode Current	—	175	max. Ma.
Heater-Cathode Voltage Heater Negative with Respect to Cathode Total DC and Peak	200	200	max. Volts
Heater Positive with Respect to Cathode DC Component	100	100	max. Volts
Total DC and Peak	200	200	max. Volts
Grid Circuit Resistance: with Cathode Bias	2.2	2.2	max. Meg.
with Fixed Bias	1.0	1.0	max. Meg.

CHARACTERISTICS AND TYPICAL OPERATION

	Triode No. 1	Triode No. 2	
Plate Voltage	275	250	175 60 Volts
Grid Voltage	Note 3	—3	—25 0 Volts
Plate Current	13	2	46 100 Ma.
Plate Resistance	—	30000	780 — Ohms
Transconductance	1600	2200	6400 — μ mhos
Amplification Factor	—	66	5 — —
Grid Cutoff Voltage (Note 4)	—	—5.3	—60 — Volts

NOTES

- For operation in a 525-line, 30-frame system as described in "Standards of Good Engineering Practice for Television Broadcasting Station, Federal Communications Commission". The duty cycle of the voltage pulse must not exceed 15 per cent of one scanning cycle.
- In stages operating with grid leak bias, an adequate cathode bias resistor or other suitable means is required to protect the tube in the absence of excitation.
- Adjust to 13 Ma. plate current.
- For: Unit 1 current of 20 microamperes.
Unit 2 current of 200 microamperes.

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Receiving Tube Section

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