



6CY7

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DUAL TRIODE
With High-Mu Unit and Low-Mu Unit

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Table with 3 columns: Parameter, Unit No. 1, Unit No. 2. Includes Heater Voltage (6.3 ± 10%), Current (0.75 amp), and Inter-electrode Capacitances (Grid to plate, Grid to cathode, Plate to cathode).

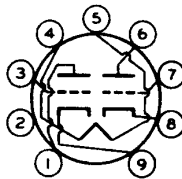
Characteristics, Class A1 Amplifier:

Table with 3 columns: Parameter, Unit No. 1, Unit No. 2. Includes Plate Supply Voltage (250, 60, 150 volts), Grid Voltage (-3, 0, - volts), Cathode Resistor (-, -, 620 ohms), Amplification Factor (68, -, 5), Plate Resistance (52000, -, 920 ohms), Transconductance (1300, -, 5400 μmhos), Plate Current (1.2, 80\*, 30 ma), Plate Current for grid volts = -30 (-, -, 3.5 ma), Grid Voltage for plate μa = 10 (-5.5, -, - volts), Grid Voltage for plate μa = 200 (-, -, -40 volts).

Mechanical:

Operating Position. . . . . Any
Maximum Overall Length. . . . . 2-5/8"
Maximum Seated Length. . . . . 2-3/8"
Length, Base Seat to Bulb Top (Excluding tip) . . . 2" ± 3/32"
Diameter. . . . . 0.750" to 0.875"
Dimensional Outline . . . . . See General Section
Bulb. . . . . T6-1/2
Base. . . . . Small-Button Noval 9-Pin (JEDEC No. E9-1)
Basing Designation for BOTTOM VIEW. . . . . 9LG

- Pin 1 - Plate of Unit No. 2
Pin 2 - Internal Connection - Do Not Use
Pin 3 - Grid of Unit No. 2
Pin 4 - Heater
Pin 5 - Heater
Pin 6 - Plate of Unit No. 1
Pin 7 - Grid of Unit No. 1
Pin 8 - Cathode of Unit No. 1
Pin 9 - Cathode of Unit No. 2



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## DUAL TRIODE

With High-Mu Unit and Low-Mu Unit

## VERTICAL-DEFLECTION OSCILLATOR

Values are for Unit No. 1

## Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system<sup>□</sup>

DC PLATE VOLTAGE. . . . .	350	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE. . . . .	400	max.	volts
PLATE DISSIPATION . . . . .	1	max.	watt
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	200	max.	volts
Heater positive with respect to cathode	200 <sup>▲</sup>	max.	volts

## Maximum Circuit Values:

Grid-Circuit Resistance . . . . .	2.2	max.	megohms
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## VERTICAL-DEFLECTION AMPLIFIER

Values are for Unit No. 2

## Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system<sup>□</sup>

DC PLATE VOLTAGE. . . . .	350	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE <sup>✱</sup> . . . . .	1800	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE. . . . .	250	max.	volts
CATHODE CURRENT:			
Peak. . . . .	120	max.	ma
Average . . . . .	35	max.	ma
PLATE DISSIPATION . . . . .	5.5	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	200	max.	volts
Heater positive with respect to cathode	200 <sup>▲</sup>	max.	volts

## Maximum Circuit Values:

Grid-Circuit Resistance:			
For cathode-bias operation. . . . .	2.2	max.	megohms

<sup>□</sup> Without external shield.<sup>✱</sup> This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.<sup>□</sup> As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.<sup>▲</sup> The dc component must not exceed 100 volts.<sup>✱</sup> This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.