



6CY7

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**DUAL TRIODE**  
**With High-Mu Unit and Low-Mu Unit**  
 9-PIN MINIATURE TYPE

**GENERAL DATA**

**Electrical:**

Heater, for Unipotential Cathodes:

Voltage (AC or DC) . . . . .	6.3 ± 10%	volts
Current . . . . .	0.75	amp

Direct Interelectrode Capacitances (Approx.):<sup>0</sup>

	Unit No.1	Unit No.2	
Grid to plate . . . . .	1.8	4.4	μμf
Grid to cathode and heater. .	1.5	5	μμf
Plate to cathode and heater .	0.3	1	μμf

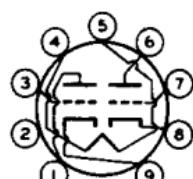
**Characteristics, Class A, Amplifier:**

	Unit No.1	Unit No.2	
Plate Supply Voltage. . . . .	250	60	volts
Grid Voltage. . . . .	-3	0	volts
Cathode Resistor. . . . .	-	-	620 ohms
Amplification Factor. . . . .	68	-	5
Plate Resistance (Approx.). . .	52000	-	920 ohms
Transconductance. . . . .	1300	-	5400 μhos
Plate Current . . . . .	1.2	80*	30 ma
Plate Current for grid volts = -30 . . . . .	-	-	3.5 ma
Grid Voltage (Approx.) for plate μa = 10 . . . . .	-5.5	-	volts
Grid Voltage (Approx.) 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	▲ max.	volts

## Maximum Circuit Values:

Grid-Circuit Resistance . . . . . 2.2 max. megohms

## 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# . . . . .	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	▲ max.	volts

## Maximum Circuit Values:

Grid-Circuit Resistance:

For cathode-bias operation. . . . . 2.2 max. megohms

<sup>□</sup> Without external shield.

# 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.

▲ The dc component must not exceed 100 volts.

# 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.