



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) $6.3 \pm 10\%$ volts

Current 0.75 amp

Direct Interelectrode Capacitances (Approx.):⁰

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

Characteristics, Class A₁ Amplifier:

	Unit No.1	Unit No.2	
Plate Supply Voltage.	250	60 150	volts
Grid Voltage.	-3	0 -	volts
Cathode Resistor.	-	- 620	ohms
Amplification Factor.	68	- 5	
Plate Resistance (Approx.). .	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 (Approx.) for			
plate $\mu\text{a} = 10$	-5.5	- -	volts
Grid Voltage (Approx.) for			
plate $\mu\text{a} = 200$	-	- -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" $\pm$ 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 Con-
nection—
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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VERTICAL-DEFLECTION OSCILLATOR

Values are for Unit No. 1

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system[□]

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
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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[□]

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

[□] 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.[□] 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.