



6DN7

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MEDIUM-MU DUAL TRIODE

With Dissimilar Units

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC) $6.3 \pm 10\%$ volts
 Current 0.9 amp

Direct Interelectrode Capacitances (Approx.):⁰

	Unit No.1	Unit No.2	
Grid to plate	4	5.5	$\mu\mu\text{f}$
Grid to cathode and heater. . .	2.2	4.6	$\mu\mu\text{f}$
Plate to cathode and heater . .	0.7	1	$\mu\mu\text{f}$

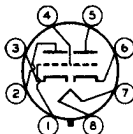
Characteristics, Class A₁ Amplifier:

	Unit No.1	Unit No.2	
Plate Voltage	250	150 250	volts
Grid Voltage.	-8	0 -9.5	volts
Amplification Factor.	22.5	- 15.4	
Plate Resistance (Approx.). . .	9000	- 2000	ohms
Transconductance.	2500	- 7700	μmhos
Plate Current	8	68* 41	ma
Grid Voltage (Approx.) for plate ma. = 10	-18	- -	volts
Grid Voltage (Approx.) for plate ma. = 50	-	- -23	volts

Mechanical:

Operating Position. Any
 Maximum Overall Length. 3"
 Maximum Seated Length 2-7/16"
 Maximum Diameter. 1-9/32"
 Bulb. T9
 Base. Intermediate-Shell Octal 8-Pin
 with External Barriers (JEDEC Group 1, B8-142)
 Basing Designation for BOTTOM VIEW. 8BD

Pin 1-Grid of
Unit No.2
 Pin 2-Plate of
Unit No.2
 Pin 3-Cathode of
Unit No.2
 Pin 4-Grid of
Unit No.1



Pin 5-Plate of
Unit No.1
 Pin 6-Cathode of
Unit No.1
 Pin 7-Heater
 Pin 8-Heater

VERTICAL-DEFLECTION OSCILLATOR

Values are for Unit No.1

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system⁰

DC PLATE VOLTAGE. 350 max. volts



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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:

For fixed-bias operation.	2.2	max.	megohms
For cathode-bias operation.	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[□]

DC PLATE VOLTAGE.	550	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE#.	2500	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE.	250	max.	volts
CATHODE CURRENT:			
Peak.	150	max.	ma
Average	50	max.	ma
PLATE DISSIPATION	10	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 fixed-bias operation.	2.2	max.	megohms
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○ 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.

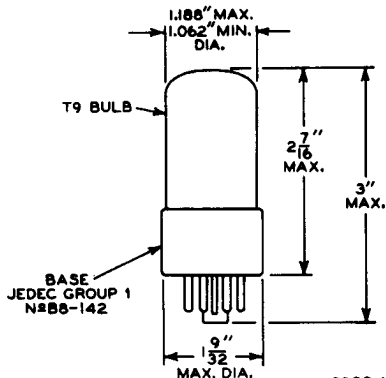


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