



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 ± 10%	volts
Current . . . . .	0.9	amp

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

	Unit No.1	Unit No.2	
Grid to plate . . . . .	4	5.5	μμf
Grid to cathode and heater. . .	2.2	4.6	μμf
Plate to cathode and heater . .	0.7	1	μμf

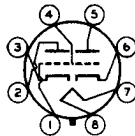
### Characteristics, Class A<sub>1</sub> Amplifier:

	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 system<sup>o</sup>

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 <sup>▲</sup>	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<sup>□</sup>

DC PLATE VOLTAGE. . . . .	550	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE <sup>#</sup> . . . . .	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 <sup>▲</sup>	max.	volts

### Maximum Circuit Values:

Grid-Circuit Resistance:			
For fixed-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.

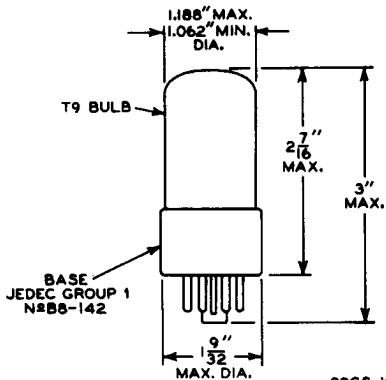


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92CS-10241