

Dual Triode With High-Mu Unit and Low-Mu Unit

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC) 6.3 ± 10% volts
Current at 6.3 volts 1.05 amp

Direct Interelectrode Capacitances
(Approx.):^a

	Unit No.1	Unit No.2	
Grid to plate	4	8	μμf
Grid to cathode and heater. . .	2.2	6	μμf
Plate to cathode and heater . .	0.6	1.3	μμf

Characteristics, Class A₁ Amplifier:

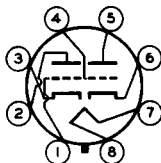
	Unit No.1	Unit No.2	
Plate Voltage	250	60 175	volts
Grid Voltage	-3	0 -25	volts
Amplification Factor	66	- 5.5	
Plate Resistance (Approx.) . . .	30000	- 920	ohms
Transconductance	2200	- 6000	μmhos
Plate Current	2	100 ^b 40	ma
Grid Voltage (Approx.) for plate μa = 20	-5.3	- -	volts
Grid Voltage (Approx.) for plate μa = 200	-	- -45	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
(JEDEC Group 1, B8-6)

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^c

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 ^d	max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance:

For fixed-bias operation.	1	max.	megohm
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^c

DC PLATE VOLTAGE.	550	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE ^e	1500	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE.	250	max.	volts
CATHODE CURRENT:			
Peak.	175	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 ^d	max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance:

For fixed-bias operation.	1	max.	megohm
For cathode-bias operation.	2.2	max.	megohms

^a Without external shield.

^b 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.

^c As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

^d The dc component must not exceed 100 volts.

^e This rating is applicable where 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.

