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MEDIUM-MU DUAL TRIODE**With Dissimilar Units**

9-PIN MINIATURE TYPE

*Intended for use in equipment having
series heater-string arrangement***GENERAL DATA****Electrical:**

Heater, for Unipotential Cathodes:

Voltage.	6.3	ac or dc volts
Current.	0.6	amp
Warm-up time (Average).	11	sec

*For definition of heater warm-up time and method of determining it, see sheet HEATER WARM-UP TIME MEASUREMENT at front of this Section.*Direct Interelectrode Capacitances (Approx.):^o

	Unit No.1 Oscillator	Unit No.2 Amplifier	
Grid to plate.	2.6	2.6	μf
Grid to cathode and heater..	1.8	3	μf
Plate to cathode and heater.	0.5	0.5	μf

Characteristics, Class A₁ Amplifier:

	Unit No.1 Oscillator	Unit No.2 Amplifier	
Plate Voltage.	250	250	volts
Grid Voltage	-8.5	-10.5	volts
Amplification Factor	17	15.5	
Plate Resistance (Approx.)	7700	3450	ohms
Transconductance	2200	4500	μmhos
Plate Current.	10.5	19	ma
Plate Current for grid volts = -16.	-	3	ma
Grid Voltage (Approx.) for plate current of:			
10 microamperes.	-24	-	volts
50 microamperes.	-	-22	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

^o: See next page.

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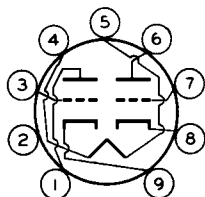
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Base. Small-Button Noval 9-Pin (JETEC No.E9-1)
 Basing Designation for BOTTOM VIEW 9EF

Pin 1-Plate of
 Unit No.2
 Pin 2-No Connec-
 tion
 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

VERTICAL-DEFLECTION OSCILLATOR

Values are for Unit No.1

Maximum Ratings, Design-Center Values:

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

DC PLATE VOLTAGE.	500	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE.	400	max.	volts
CATHODE CURRENT:			
Peak.	70	max.	ma
DC.	20	max.	ma
PLATE DISSIPATION	1.25	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	2.2	max.	megohms
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VERTICAL-DEFLECTION AMPLIFIER

Values are for Unit No.2

Maximum Ratings, Design-Center Values Except as Noted:

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

DC PLATE VOLTAGE.	500	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE [#]			
(Absolute maximum).	2200 [■]	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE.	250	max.	volts
CATHODE CURRENT:			
Peak.	105	max.	ma
DC.	30	max.	ma
PLATE DISSIPATION	6.5	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200 [▲]	max.	volts

□, ▲, #, ■: See next page.



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Maximum Circuit Values:

Grid-Circuit Resistance. 2.2 max. megohms

- 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 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.
- Under no circumstances should this absolute value be exceeded.
- Without external shield.