

Medium-Mu Twin Triode

9-PIN MINIATURE TYPE

For Use in the Matrixing Circuits of Color TV Receivers.
Also Useful in Phase-Inverter and Multivibrator Circuits, and as a General-Purpose Amplifier Tube.

GENERAL DATA

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC)	6.3 ^a	6.3 ± 0.6	volts
Current	0.600 ± 0.040	0.600 ^b	ma
Warm-up time (Average)	11	-	sec
Peak heater-cathode voltage (Each unit):			

Heater negative with respect to cathode	200 max.	volts
Heater positive with respect to cathode	200 ^c max.	volts

Direct Interelectrode Capacitances (Approx.):^d

	Unit No. 1	Unit No. 2	
Grid to plate	3.0	3.0	pf
Grid to cathode and heater	3.4	3.6	pf
Plate to cathode and heater	0.44	0.34	pf
Plate of unit No.1 to plate of unit No.2	1.0	1.0	pf

Characteristics, Class A₁ Amplifier (Each unit):

Plate Voltage	250	volts
Grid Voltage	-10.5	volts
Amplification Factor	17	
Plate Resistance (Approx.)	5500	ohms
Transconductance	3100	μmhos
Plate Current	11.5	ma
Plate Current for grid volts = -14	4	ma
Grid Voltage (Approx.) for plate μa = 50	-23	volts

Mechanical:

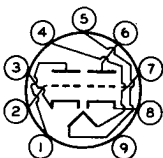
Operating Position	Any
Type of Cathodes	Coated Unipotential
Maximum Overall Length	2-5/8"
Maximum Seated Length	2-3/8"
Length, Base Seat to Bulb Top (Excluding tip)	2" ± 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline	See General Section
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)



6GU7

Basing Designation for BOTTOM VIEW. 9LP

Pin 1 -Plate of
Triode No.2
Pin 2 -Grid of
Triode No.2
Pin 3 -Cathode of
Triode No.2
Pin 4 -Heater
Pin 5 -Heater



Pin 6 -Plate of
Triode No.1
Pin 7 -Grid of
Triode No.1
Pin 8 -Cathode of
Triode No.1
Pin 9 -No Internal
Connection

AMPLIFIER — Class A₁

Values are for Each Unit

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. 330 max. volts
GRID VOLTAGE:
Positive-bias value. 0 max. volts
PLATE DISSIPATION. 3 max. watts

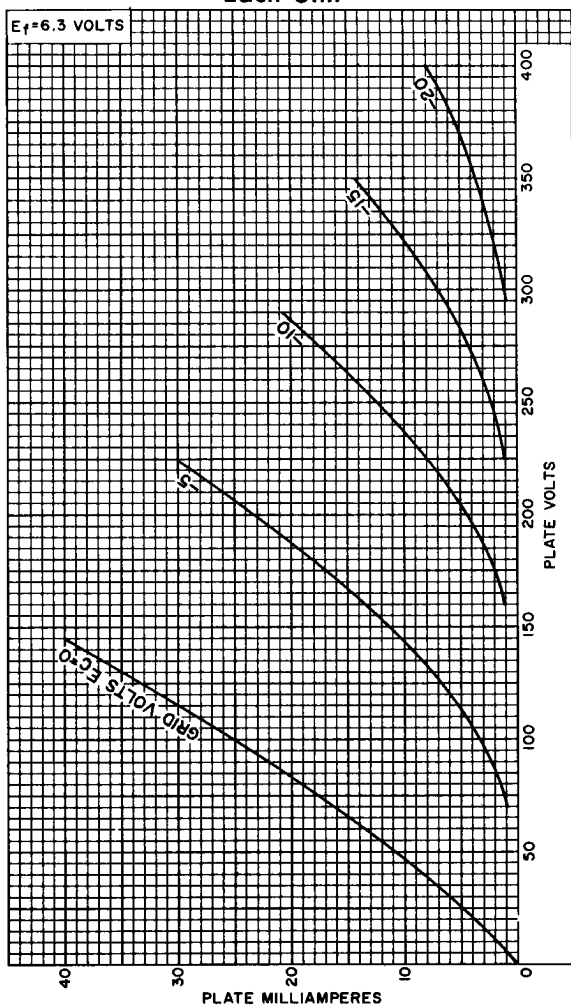
Maximum Circuit Values:

Grid-Circuit Resistance:
For fixed-bias operation 1 max. megohm

- ^a At heater amperes = 0.600.
- ^b At heater volts = 6.3.
- ^c The dc component must not exceed 100 volts.
- ^d Without external shield.



AVERAGE PLATE CHARACTERISTICS Each Unit



92CM-11966

