

Medium-Mu Triode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3 ± 10%	volts
Current at 6.3 volts.	0.225	amp

Direct Interelectrode Capacitance
(Approx.):^a

Grid to plate	1.9	μf
Grid to cathode and heater.	2.2	μf
Plate to cathode and heater	1.4	μf
Heater to cathode	2.2 ^b	μf

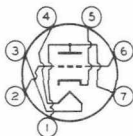
Characteristics, Class A₁ Amplifier:

Plate Supply Voltage.	80	volts
Cathode Resistor.	150	ohms
Amplification Factor.	13.5	
Plate Resistance (Approx.).	2100	ohms
Transconductance.	6500	μmhos
Plate Current	17.5	ma

Mechanical:

Operating Position.	Any
Maximum Overall Length.	1-3/4"
Maximum Seated Length.	1-1/2"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/8" ± 3/32"
Diameter.	0.650" to 0.750"
Dimensional Outline	See General Section
Bulb.	T5-1/2
Base.	Small-Button Miniature 7-Pin (JEDEC No. E7-1)
Basing Designation for BOTTOM VIEW.	7DK

Pin 1 - Plate
Pin 2 - Grid
Pin 3 - Heater
Pin 4 - Heater



Pin 5 - Cathode
Pin 6 - Grid
Pin 7 - Plate

UHF OSCILLATOR

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE	150	max.	volts
GRID VOLTAGE:			
Negative-bias value	50	max.	volts
GRID CURRENT.	2	max.	ma
CATHODE CURRENT	24	max.	ma
PLATE DISSIPATION	2.5	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	50	max.	volts
Heater positive with respect to cathode	50 ^c	max.	volts

← Indicates a change.



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Typical Operation:

At frequency of 1000 Mc

Plate Supply Voltage.	100	volts
Plate Resistor.	220	ohms
Grid Resistor	10000	ohms
Plate Current	17	ma
Grid Current (Approx.)	750	μ a

Maximum Circuit Values:

- Grid-Circuit Resistance:
- For fixed-bias operation. Not recommended
 - For cathode-bias operation. 0.5 max. megohm

^a With external shield JEDEC No.316 connected to cathode except as noted.
^b With external shield JEDEC No.316 connected to plate.
^c The dc component must not exceed 25 volts.



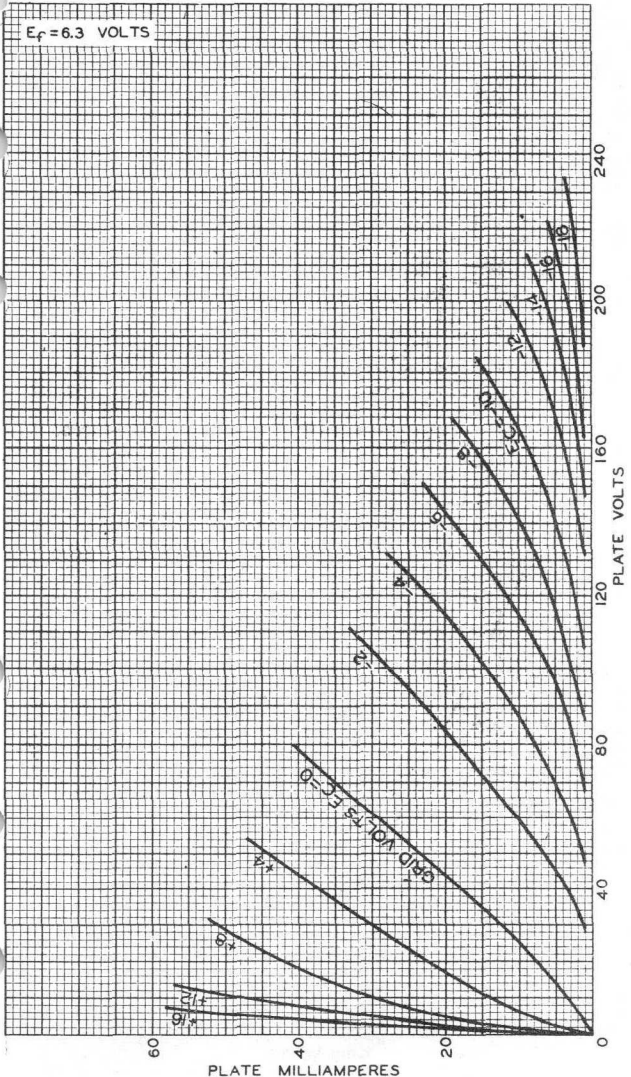


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AVERAGE PLATE CHARACTERISTICS

$E_f = 6.3$ VOLTS

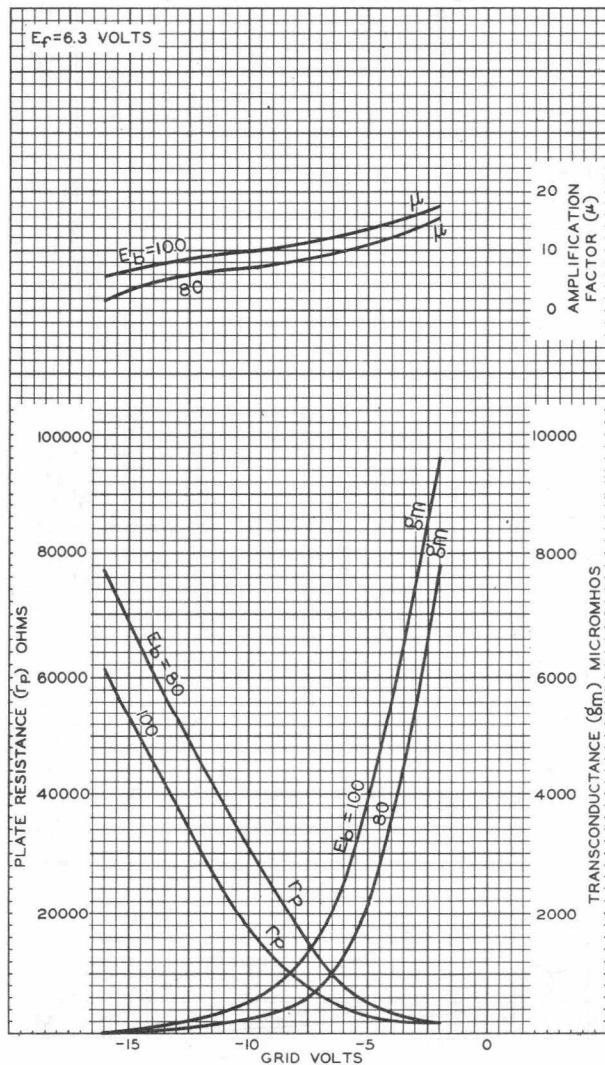


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AVERAGE CHARACTERISTICS



FEB. 26, 1952

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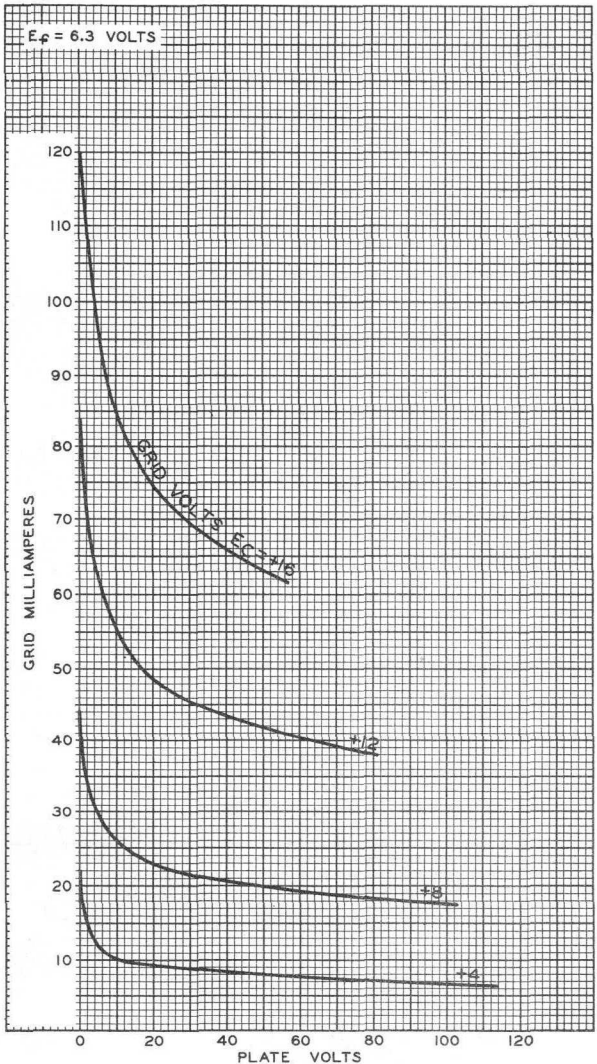
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AVERAGE CHARACTERISTICS



MAR. 19, 1952

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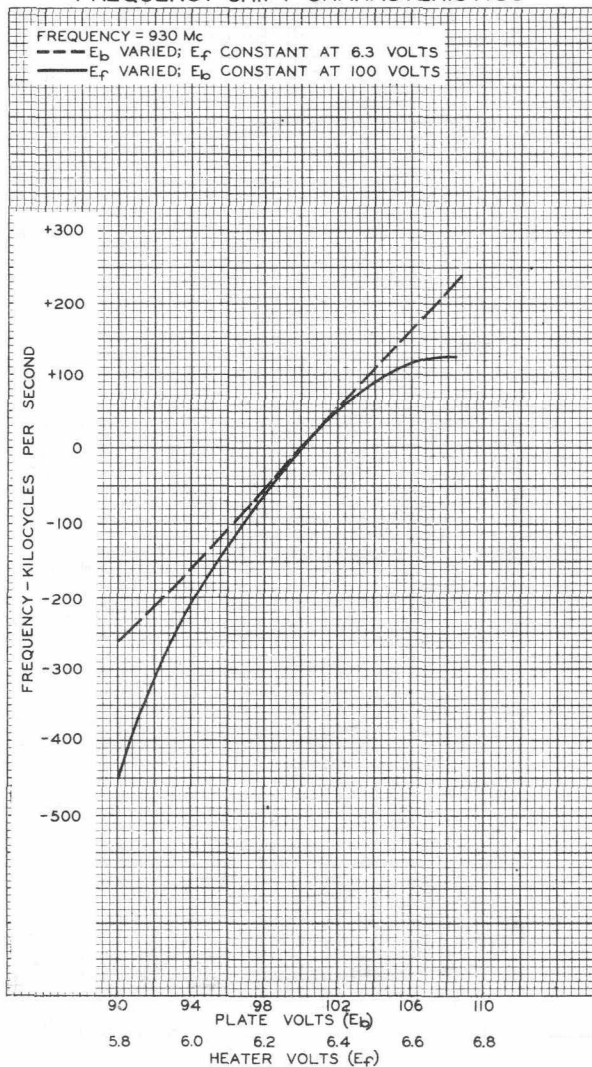
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FREQUENCY SHIFT CHARACTERISTICS



FEB. 29, 1952

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