

Medium-Mu Triode

7-PIN MINIATURE TYPE
For UHF-Oscillator Service in TV Receivers

GENERAL DATA

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC) 6.3 ± 0.6 volts
Current at heater volts = 6.3 0.225 amp

Peak heater-cathode voltage:

Heater negative with respect to cathode 50 max. volts

Heater positive with respect to cathode 50^a max. volts

Direct Interelectrode Capacitances (Approx):^b

Grid to plate 1.8 pf
Grid to cathode and heater 2.2 pf
Plate to cathode and heater 1.3 pf

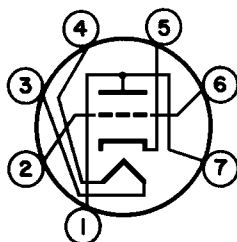
Characteristics, Class A₁ Amplifier:

Plate Supply Voltage 80 volts
Plate Resistor 2700 ohms
Amplification Factor 14
Plate Resistance (Approx) 2000 ohms
Transconductance 6700 μ mhos
Plate Current 15 ma
Grid Voltage (Approx) for plate μ a = 20 . . . -11 volts

Mechanical:

Operating Position Any
Type of Cathode Coated Unipotential
Maximum Overall Length 1-3/4"
Maximum Seated Length 1-1/2"
Length, Base Seat to Bulb Top (Excluding tip) . . . 1-1/8" $\pm$ 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



6DZ4

UHF OSCILLATOR

Maximum Ratings, *Design-Maximum Values:*

PLATE VOLTAGE	135 max.	volts
GRID VOLTAGE:		
Negative-bias value	50 max.	volts
GRID CURRENT	2 max.	ma
CATHODE CURRENT	20 max.	ma
PLATE DISSIPATION	2.3 max.	watts

Typical Operation:^c

At frequency of 1000 Mc

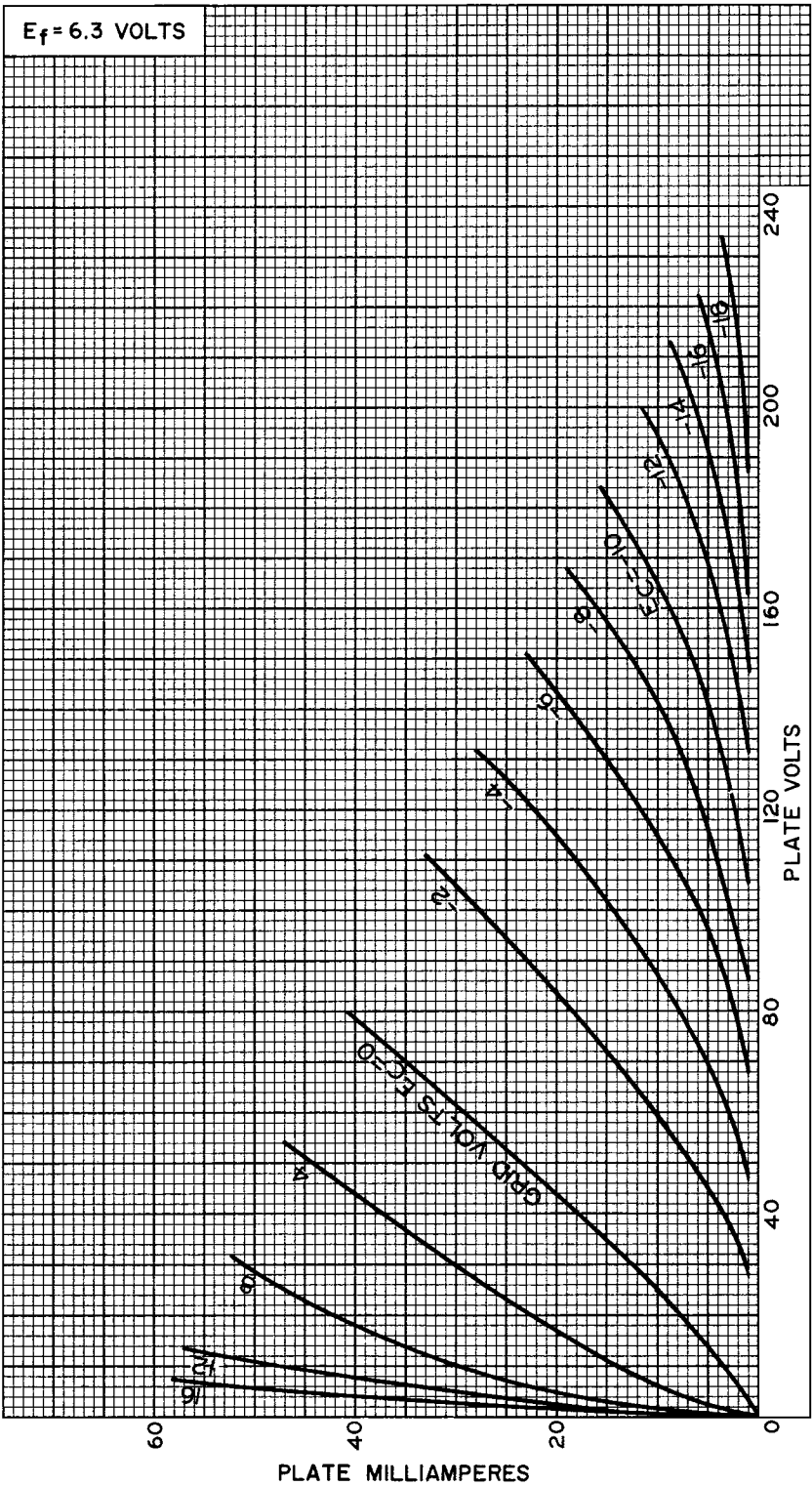
Plate Supply Voltage.	135	volts
Plate-Circuit Resistance.	2700	ohms
Grid Resistor	10000	ohms
Plate Current	15.5	ma
Grid Current (Approx)	800	μa

Maximum Circuit Values:

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

- ^a The dc component must not exceed 25 volts.
- ^b With external shield JEDEC No.316 connected to cathode.
- ^c Measured in JEDEC STANDARD OSCILLATION TEST SET No.400 with external, added resistance in plate circuit.

AVERAGE PLATE CHARACTERISTICS

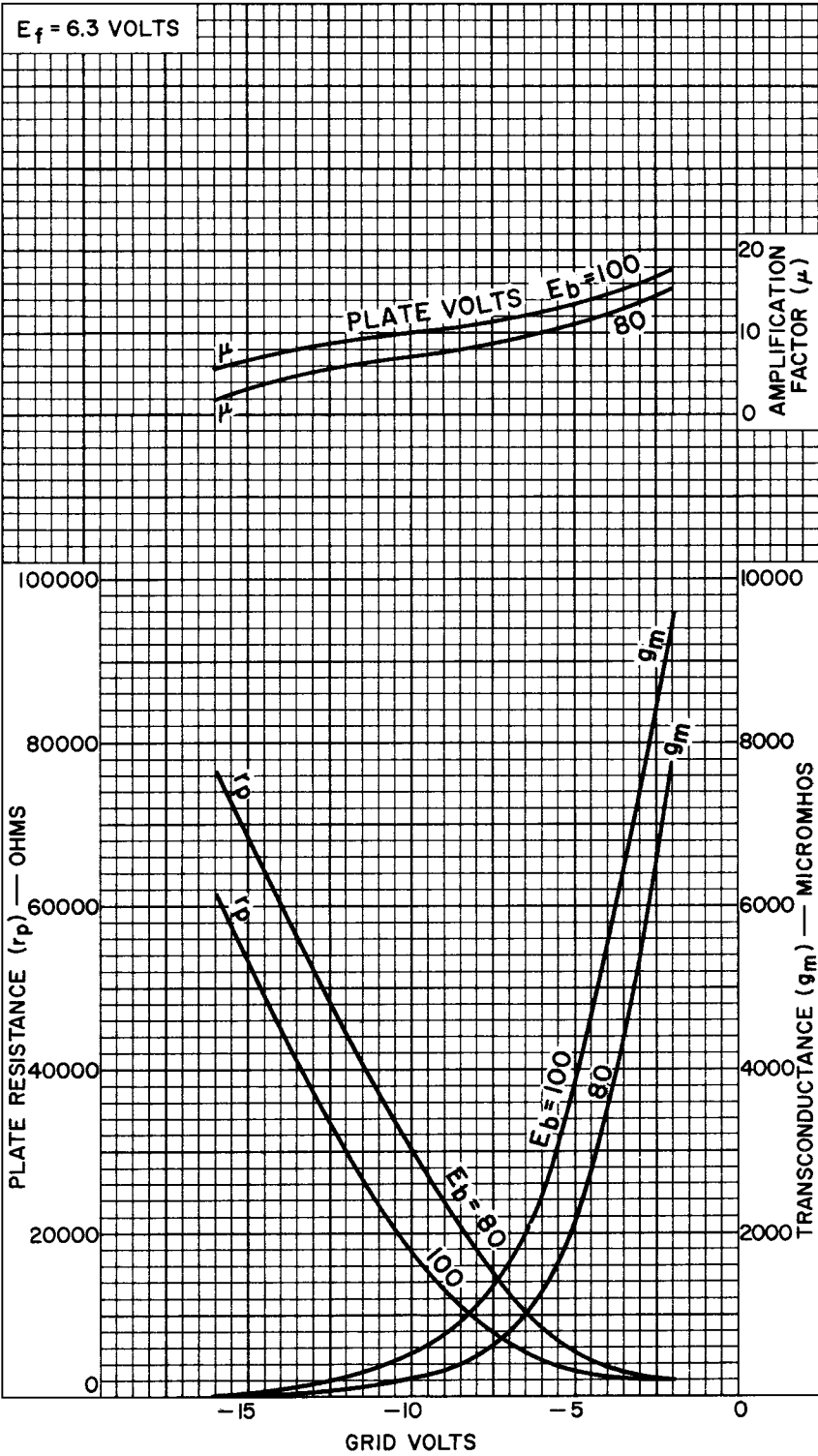


92CM-7756



6DZ4

AVERAGE CHARACTERISTICS



92CM - 7758R1

