

6DV4

Medium-Mu Triode

NUVISTOR TYPE

Having Gold-Plated Envelope and Base Pins to Assure Positive Grounding and Low Pin-Contact Resistance for Oscillator Applications at UHF Frequencies

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC) 6.3 ± 0.6 volts
Current at heater volts = 6.3 0.135 amp

Peak heater-cathode voltage:

Heater negative with respect to cathode 100 max. volts

Heater positive with respect to cathode 100 max. volts

Direct Interelectrode Capacitances (Approx.):

Grid to plate 1.8 pf

Grid to cathode, shell, and heater 4.4 pf

Plate to cathode, shell, and heater 1.9 pf

Plate to cathode 0.25 pf

Heater to cathode 1.4 pf

Grid to cathode 3.7 pf

Characteristics, Class A₁ Amplifier:

Plate Supply Voltage 75 volts

Cathode Resistor 100 ohms

Amplification Factor 35

Plate Resistance (Approx.) 3100 ohms

Transconductance 11500 μ mhos

Plate Current 10.5 ma

Grid Voltage (Approx.) for plate $\mu a = 10$ -7 volts

Mechanical:

Operating Position Any

Type of Cathode Coated Unipotential

Maximum Overall Length 0.800"

Maximum Seated Length 0.625"

Maximum Diameter 0.440"

Envelope Metal Shell MT4

Socket . . Industrial Electronic Hardware Corp. No. MSN0707-1,

or equivalent

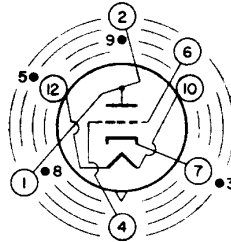
Base . . . Medium Ceramic-Wafer Twelvar 7-Pin (JEDEC No.E7-83)



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Basing Designation for BOTTOM VIEW. 12EA

- Pin 1 - Plate
- Pin 2 - Plate
- Pin 3^a - Do Not Use
- Pin 4 - Grid
- Pin 5 - Same as Pin 3
- Pin 6 - Grid
- Pin 7 - Cathode
- Pin 8 - Same as Pin 3
- Pin 9 - Same as Pin 3
- Pin 10 - Heater
- Pin 12 - Heater



INDEX = LARGE LUG
● = SHORT PIN

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE SUPPLY VOLTAGE.	300 ^b max.	volts
PLATE VOLTAGE	125 max.	volts
GRID VOLTAGE:		
Negative-bias value	55 max.	volts
Peak-positive value	2 max.	volts
CATHODE CURRENT	15 max.	ma
PLATE DISSIPATION	1 max.	watt

Typical Operation:

As oscillator at 950 Mc

Plate Voltage	60	volts
Grid Voltage.	-2	volts
Grid Resistor	5600	ohms
Plate Current	8	ma
Grid Current.	350	μa

Maximum Circuit Values:

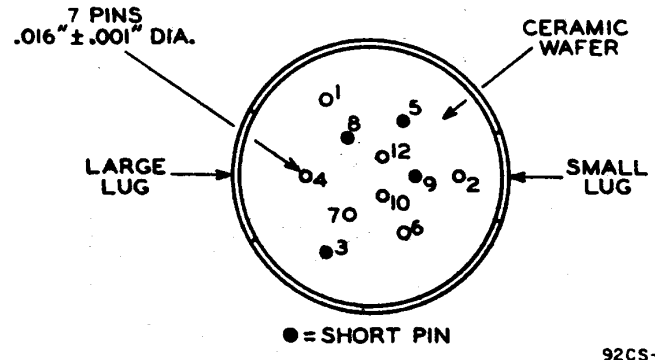
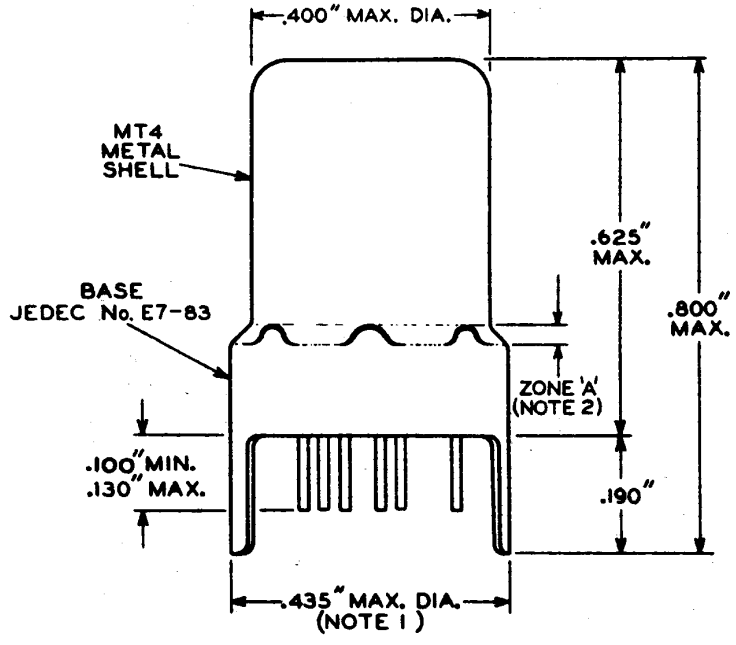
Grid-Circuit Resistance:^c

For fixed-bias operation.	0.1 max.	megohm
For cathode-bias operation.	0.2 max.	megohm

^a Pin is of a length such that its end does not touch the socket insertion plane.
^b A plate supply voltage of 300 volts may be used provided that a sufficiently large resistor is used in the plate circuit to limit the plate dissipation to one watt under any condition of operation.
^c For operation at metal-shell temperatures up to 135° C.



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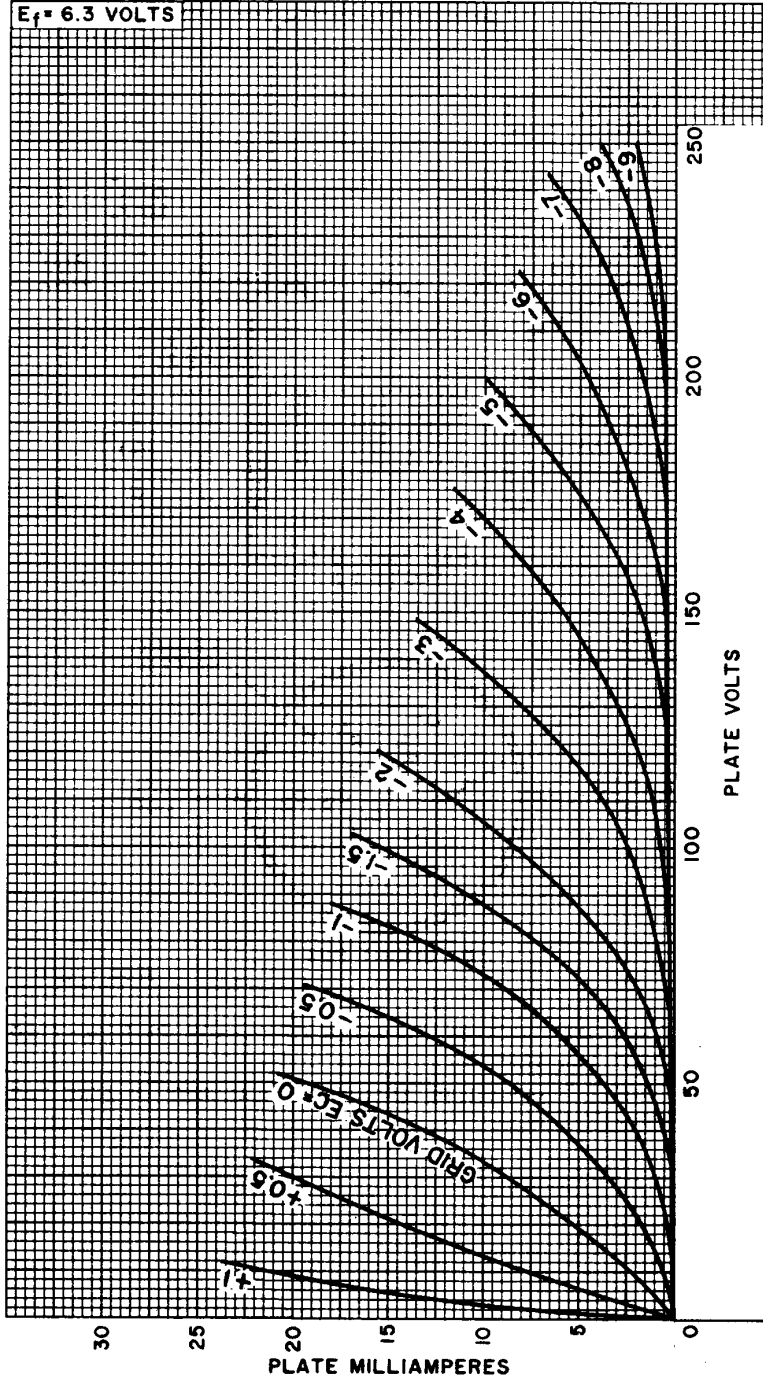
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- NOTE 1:** MAXIMUM OUTSIDE DIAMETER OF 0.440" IS PERMITTED ALONG 0.190" LUG LENGTH.
- NOTE 2:** SHELL TEMPERATURE SHOULD BE MEASURED IN ZONE "A" BETWEEN BROKEN LINES.



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AVERAGE PLATE CHARACTERISTICS



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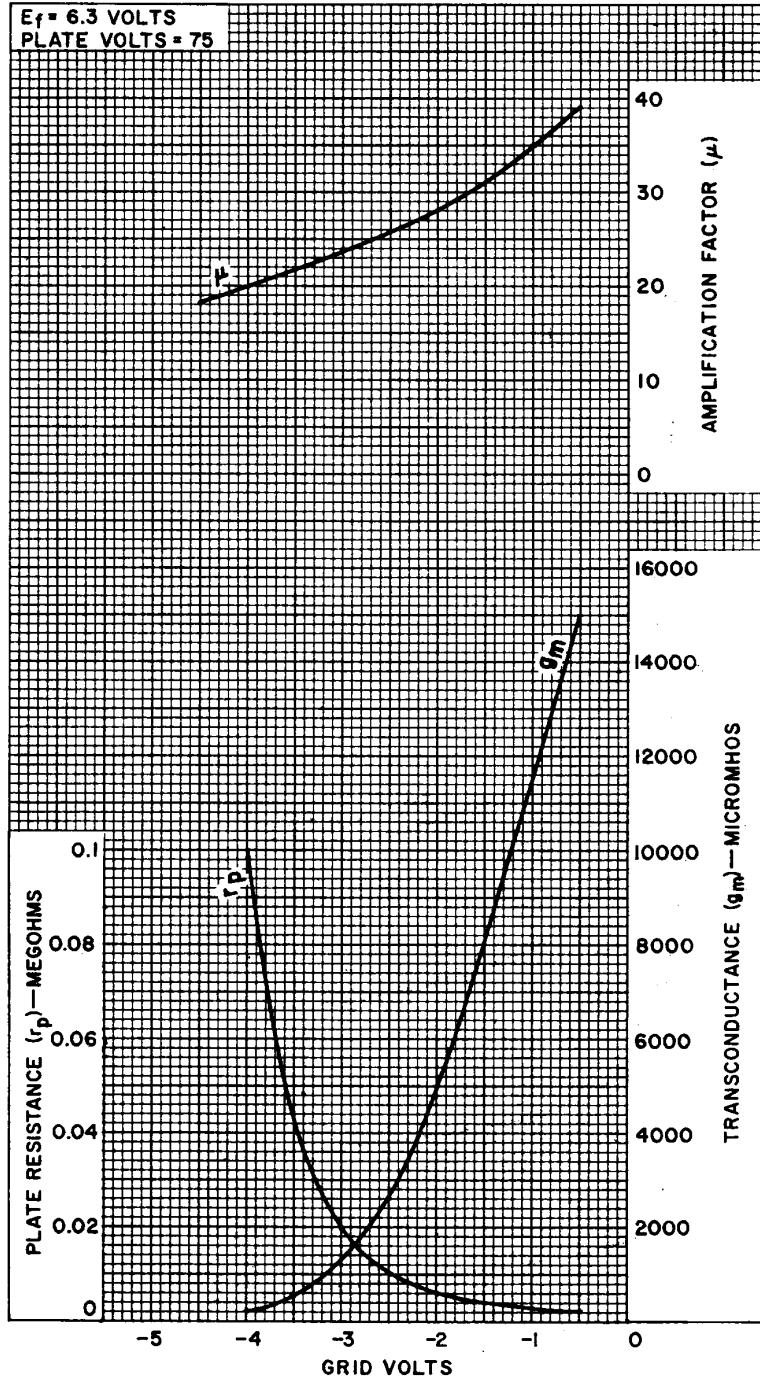
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AVERAGE CHARACTERISTICS



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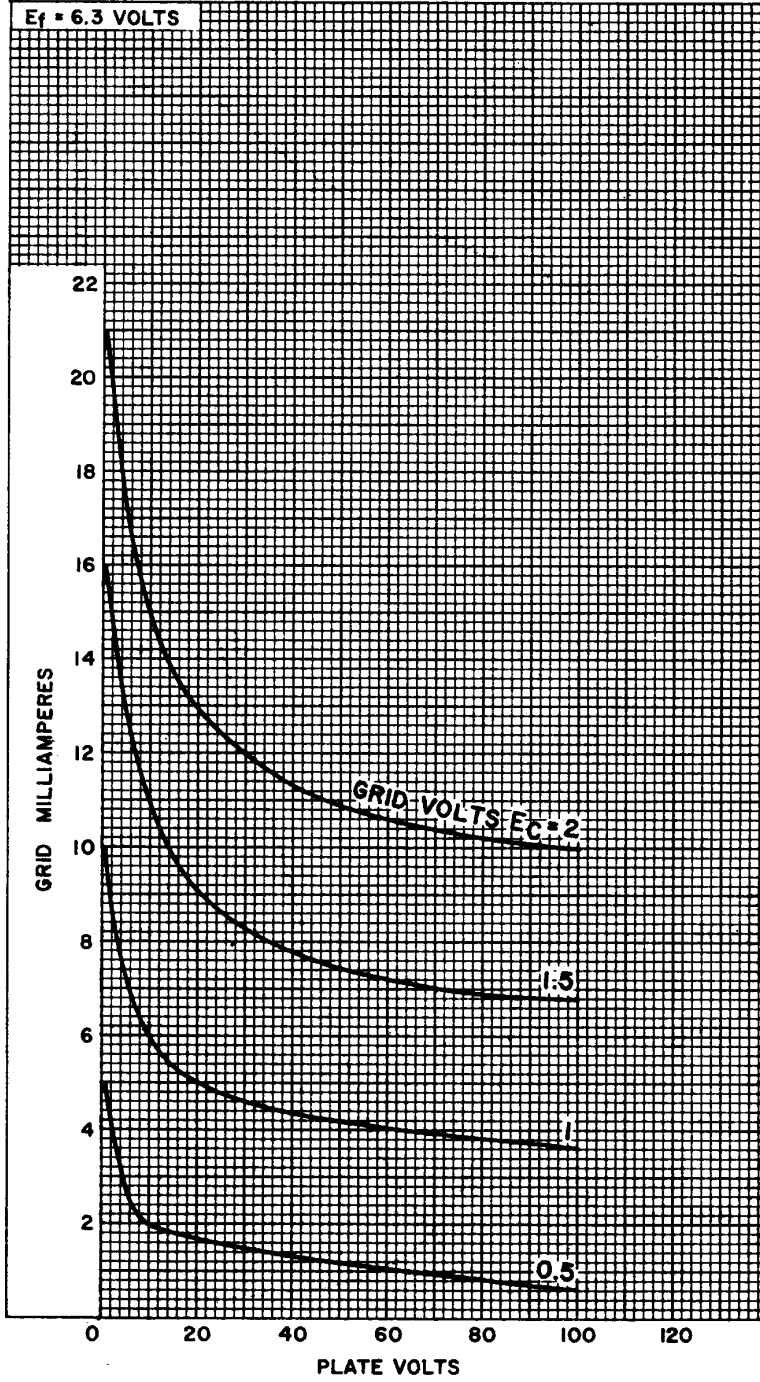


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DATA 3
1-63

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AVERAGE CHARACTERISTICS



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