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SHARP-CUTOFF PENTODE

MINIATURE TYPE

Useful at Frequencies up to 400 Mc

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage.	6.3	ac or dc volts
Current.	0.3	amp

Direct Interelectrode

Capacitances:

Without
Shield

With
Shield^o



Pentode Connection:

Grid No.1 to plate	0.030 max.	0.020 max.	μf
Grid No.1 to cathode & grid No.3 & internal shield, grid No.2, and heater. . .	6.5	6.6	μf
Plate to cathode & grid No.3 & internal shield, grid No.2, and heater . . .	1.8	3.1	μf

Triode Connection, Grid No.2 tied to Plate:

Grid No.1 to plate and grid No.2.	2.5	2.5	μf
Grid No.1 to cathode & grid No.3 & internal shield, and heater	3.6	3.6	μf
Plate and grid No.2 to cathode & grid No.3 & internal shield, and heater	3	4.3	μf

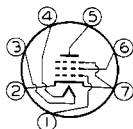
Mechanical:

Mounting Position.	Any
Maximum Overall Length	2-1/8"
Maximum Seated Length.	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip).	1-1/2" \pm 3/32"
Maximum Diameter	3/4"
Bulb	T-5-1/2"
Base	Small-Button Miniature 7-Pin (JETEC No.E7-1)



Basing Designation for BOTTOM VIEW 7BD

- Pin 1 - Grid No.1
- Pin 2 - Cathode,
Grid No.3,
Internal
Shield
- Pin 3 - Heater
- Pin 4 - Heater



- Pin 5 - Plate
- Pin 6 - Grid No.2
- Pin 7 - Cathode,
Grid No.3,
Internal
Shield

^o with external shield JETEC No.316 connected to pin No.7.

← indicates a change.

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SHARP-CUTOFF PENTODE

AMPLIFIER - Class A₁

Pentode Connection

→ Maximum Ratings, Design-Center Values:

PLATE VOLTAGE.	300 max.	volts
GRID-No.2 (SCREEN) SUPPLY VOLTAGE.	300 max.	volts
GRID-No.2 VOLTAGE.	<i>See Grid-No.2 Input Rating Chart at front of Receiving Tube Section</i>	

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive bias value.	0 max.	volts
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PLATE DISSIPATION.	2 max.	watts
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GRID-No.2 INPUT:

For grid-No.2 voltages up to 150 volts	0.5 max.	watt
For grid-No.2 voltages between 150 and 300 volts.	<i>See Grid-No.2 Input Rating Chart at front of Receiving Tube Section</i>	

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

→ Typical Operation and Characteristics:

Plate Voltage.	100	125	250	volts
Grid-No.2 Voltage.	100	125	150	volts
Cathode-Bias Resistor.	180	100	180	ohms
Plate Resistance (Approx.)	0.6	0.5	0.8	megohm
Transconductance	4500	5100	5000	μmhos
Plate Current.	4.5	7.2	6.5	ma
Grid-No.2 Current.	1.4	2.1	2.0	ma
Grid-No.1 Voltage (Approx.) for plate current = 10 μamp	-5	-6	-8	volts

AMPLIFIER - Class A₁

Triode Connection - Grid No.2 Connected to Plate

→ Maximum Ratings, Design-Center Values:

PLATE VOLTAGE.	300 max.	volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive bias value.	0 max.	volts
PLATE AND GRID-No.2 DISSIPATION (TOTAL).	2.5 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

Typical Operation and Characteristics:

Plate Voltage.	180	250	volts
→ Cathode-Bias Resistor.	330	820	ohms
→ Plate Resistance (Approx.)	0.008	0.01	megohm
Amplification Factor	45	42	
Transconductance	5700	3800	μmhos
Plate & Grid-No.2 Current (Total).	7	5.5	ma

→ Indicates a change.

JAN. 3, 1955

TUBE DIVISION

DATA

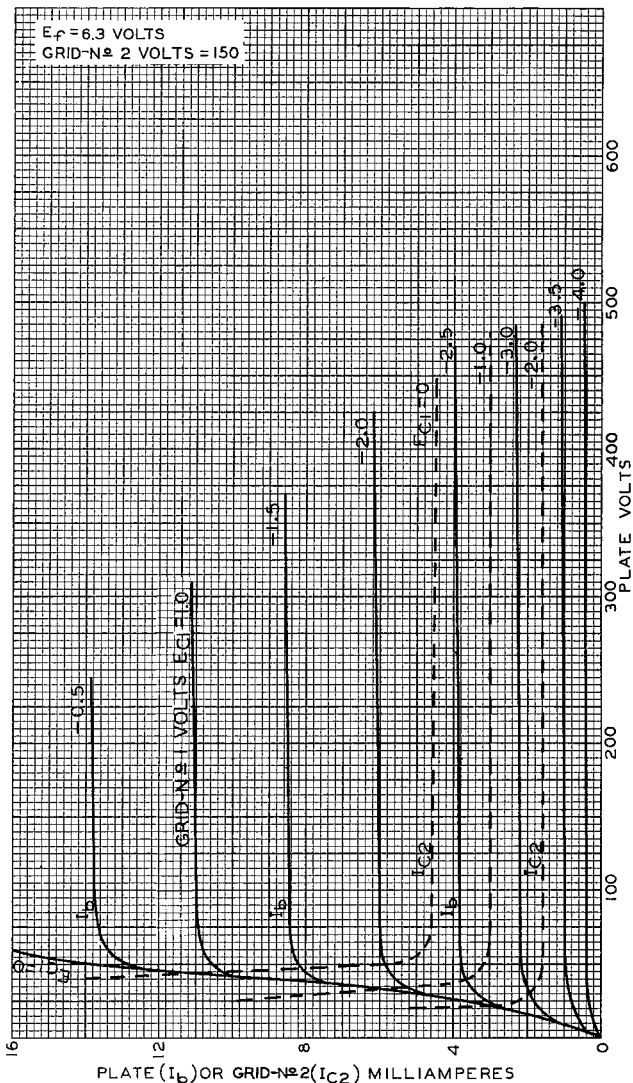
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AVERAGE PLATE CHARACTERISTICS



DEC. 27, 1954

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92CM-6399 R2

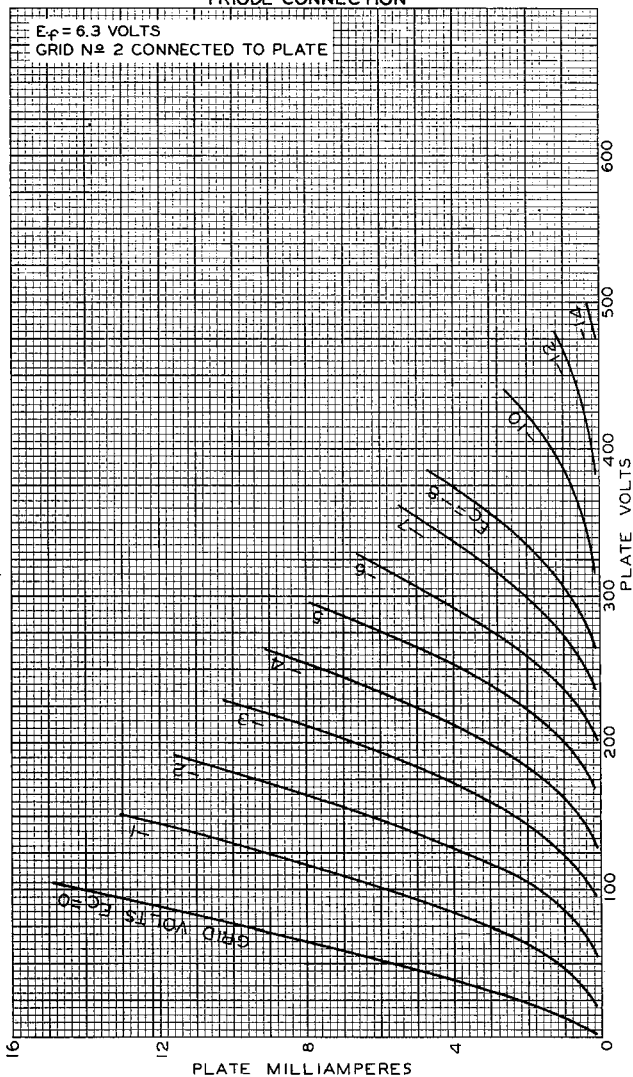
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AVERAGE PLATE CHARACTERISTICS

TRIODE CONNECTION



DEC. 28, 1954

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