

# 6DT6-A

## Sharp-Cutoff Pentode With Two Independent Control Grids

7-PIN MINIATURE TYPE  
For FM Detector Service

### GENERAL DATA

#### Electrical:

Heater, for Unipotential Cathode:		
Voltage (AC or DC) . . . . .	6.3 ± 10%	volts
Current at 6.3 volts. . . . .	0.3	amp
Direct Interelectrode Capacitances (Approx.): <sup>▲</sup>		
Grid No.1 to plate. . . . .	0.02	μf
Grid No.1 to cathode & internal shield, grid No.3, grid No.2, and heater. . . . .	5.8	μf
Grid No.3 to plate. . . . .	1.7	μf
Grid No.1 to grid No.3. . . . .	0.1	μf
Grid No.3 to cathode & internal shield, plate, grid No.2, grid No.1, and heater. . . . .	6.1	μf

#### Characteristics, Class A<sub>1</sub> Amplifier:

Plate Supply Voltage. . . . .	150	volts
Grid No.3 . . . . .	<i>Connected to cathode at socket</i>	
Grid-No.2 Supply Voltage. . . . .	100	volts
Cathode Resistor. . . . .	560	ohms
Plate Resistance (Approx.). . . . .	0.15	megohm
Transconductance, Grid No.1 to Plate. . . . .	1350	μmhos
Transconductance, Grid No.3 to Plate. . . . .	515	μmhos
Plate Current . . . . .	1.55	ma
Grid-No.2 Current . . . . .	1.8	ma
Grid-No.1 Voltage (Approx.) for plate μa = 10 . . . . .	-5.2	volts
Grid-No.3 Voltage (Approx.) for plate μa = 10 . . . . .	-4.2	volts

#### Mechanical:

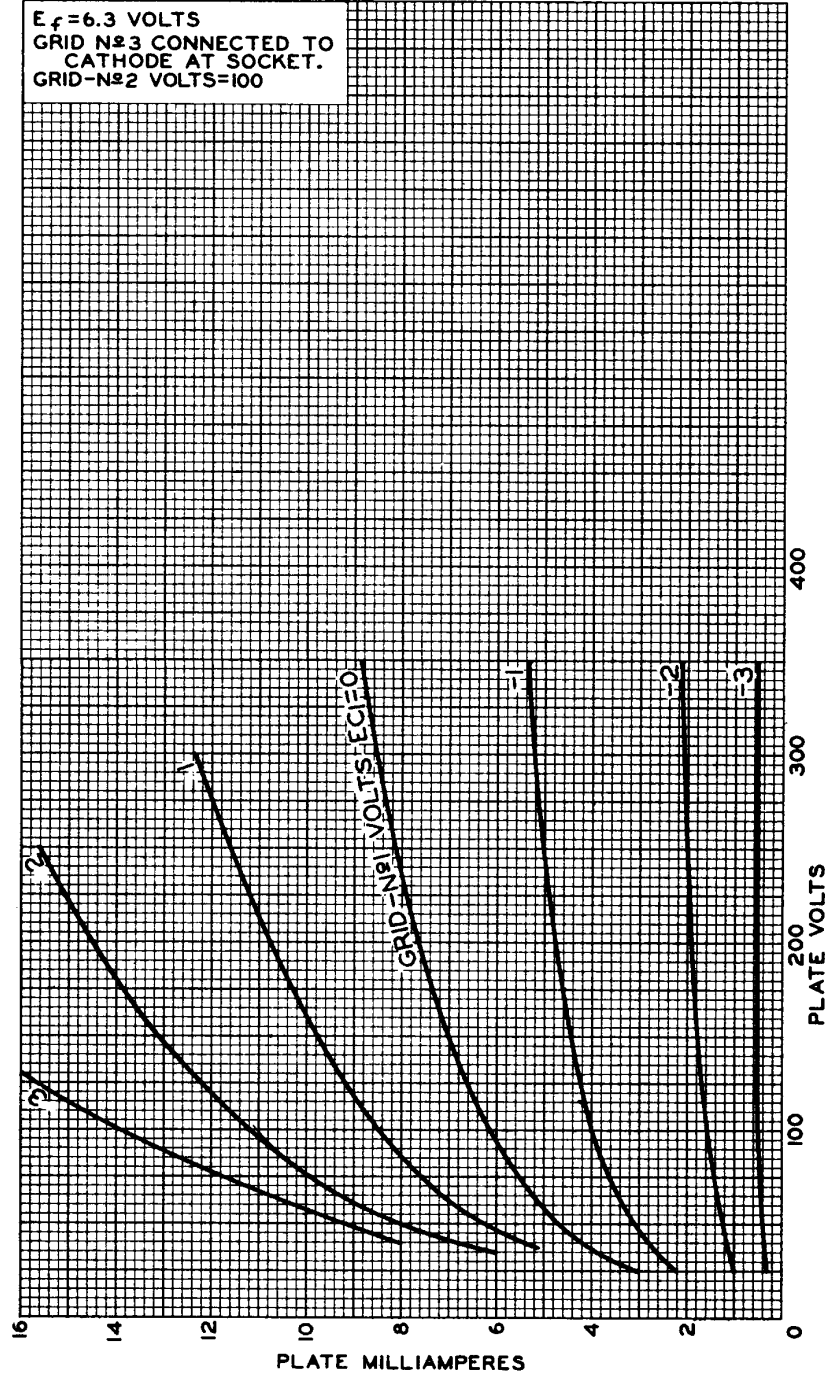
Operating Position. . . . .	Any
Maximum Overall Length. . . . .	2-1/8"
Maximum Seated Length . . . . .	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip) . . . . .	1-1/2" ± 3/32"
Diameter. . . . .	0.650" to 0.750"
Dimensional Outline . . . . .	See <i>General Section</i>
Bulb. . . . .	T5-1/2
Base. .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





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## AVERAGE PLATE CHARACTERISTICS



92CM-8827R2

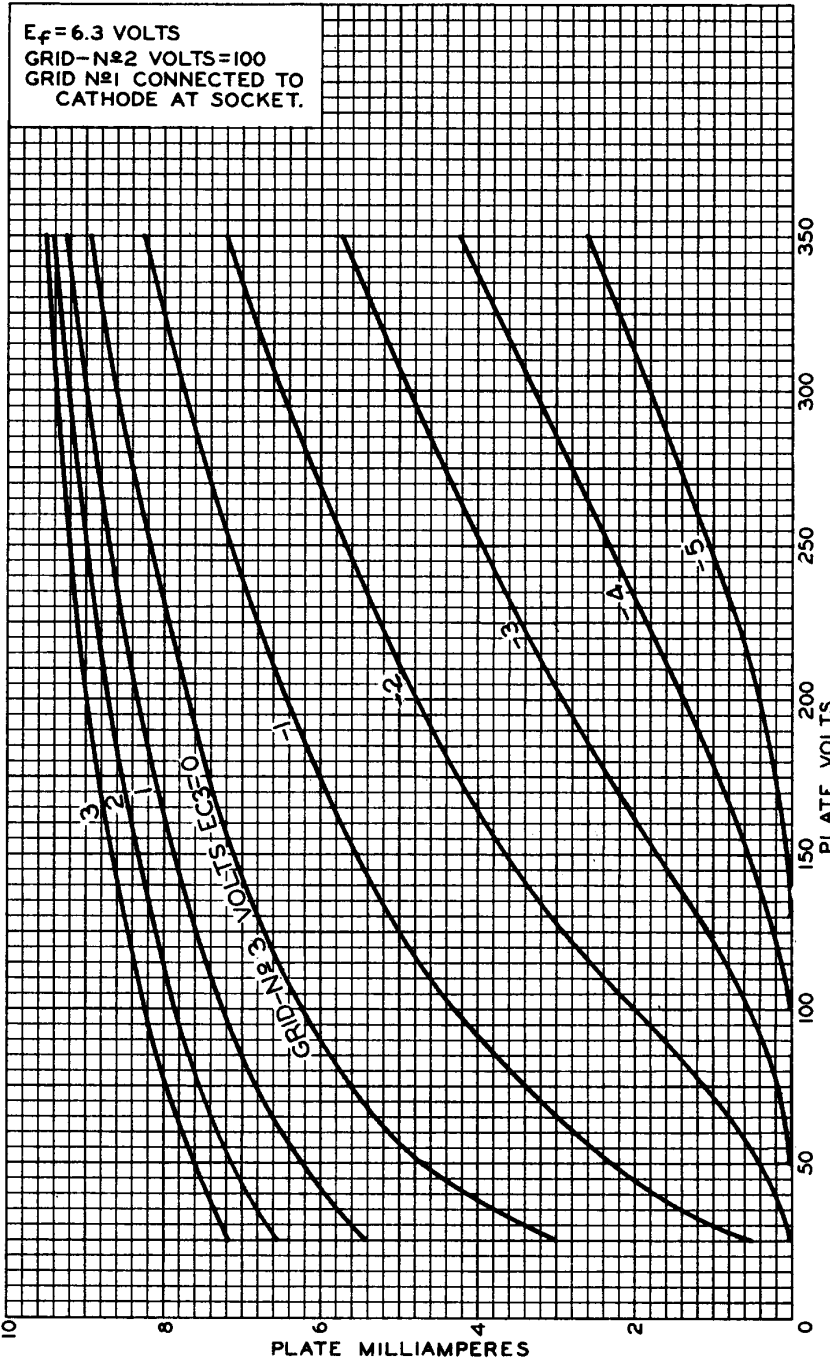


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DATA 2  
1-61

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## AVERAGE PLATE CHARACTERISTICS



92CM-8830R2

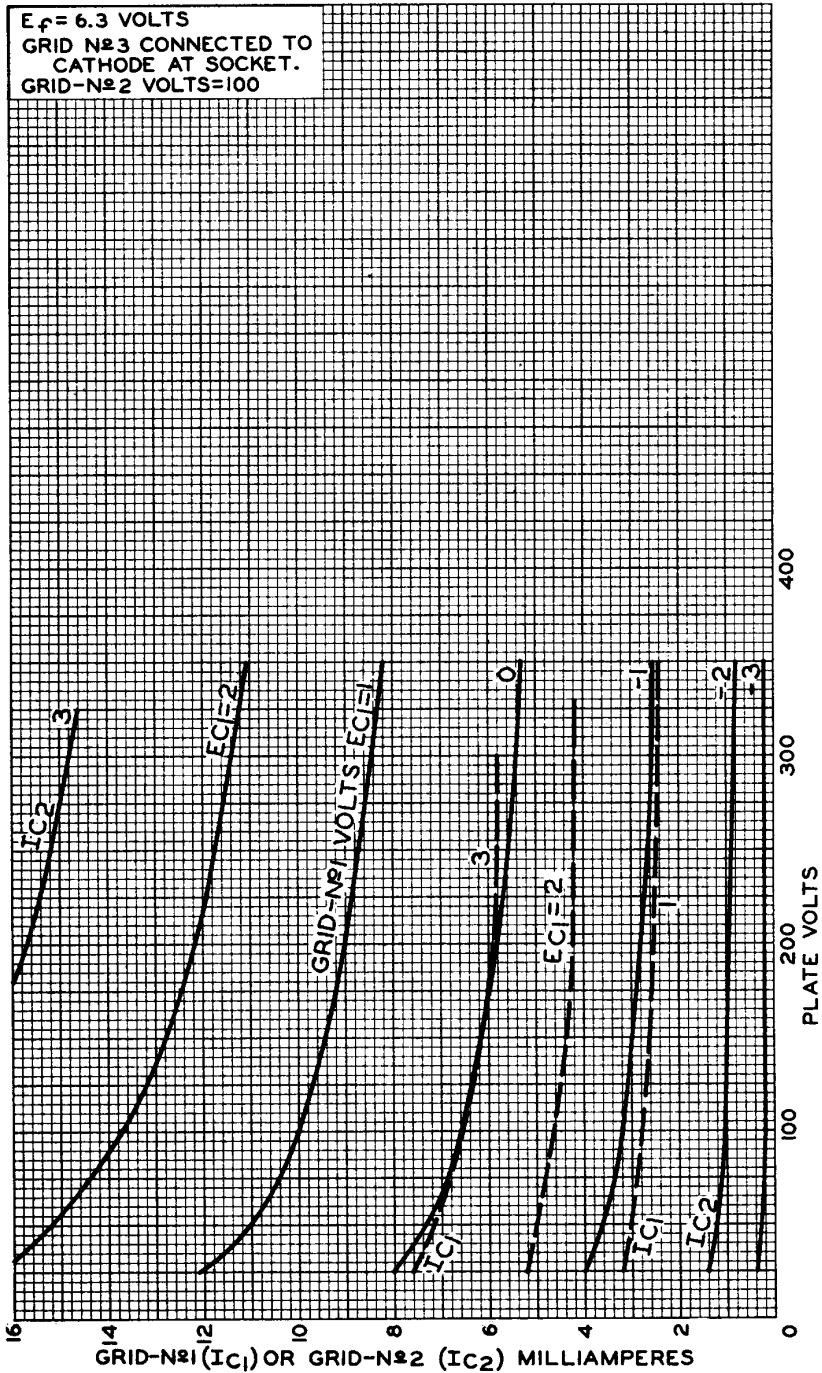
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## AVERAGE CHARACTERISTICS



92CM-8828R2

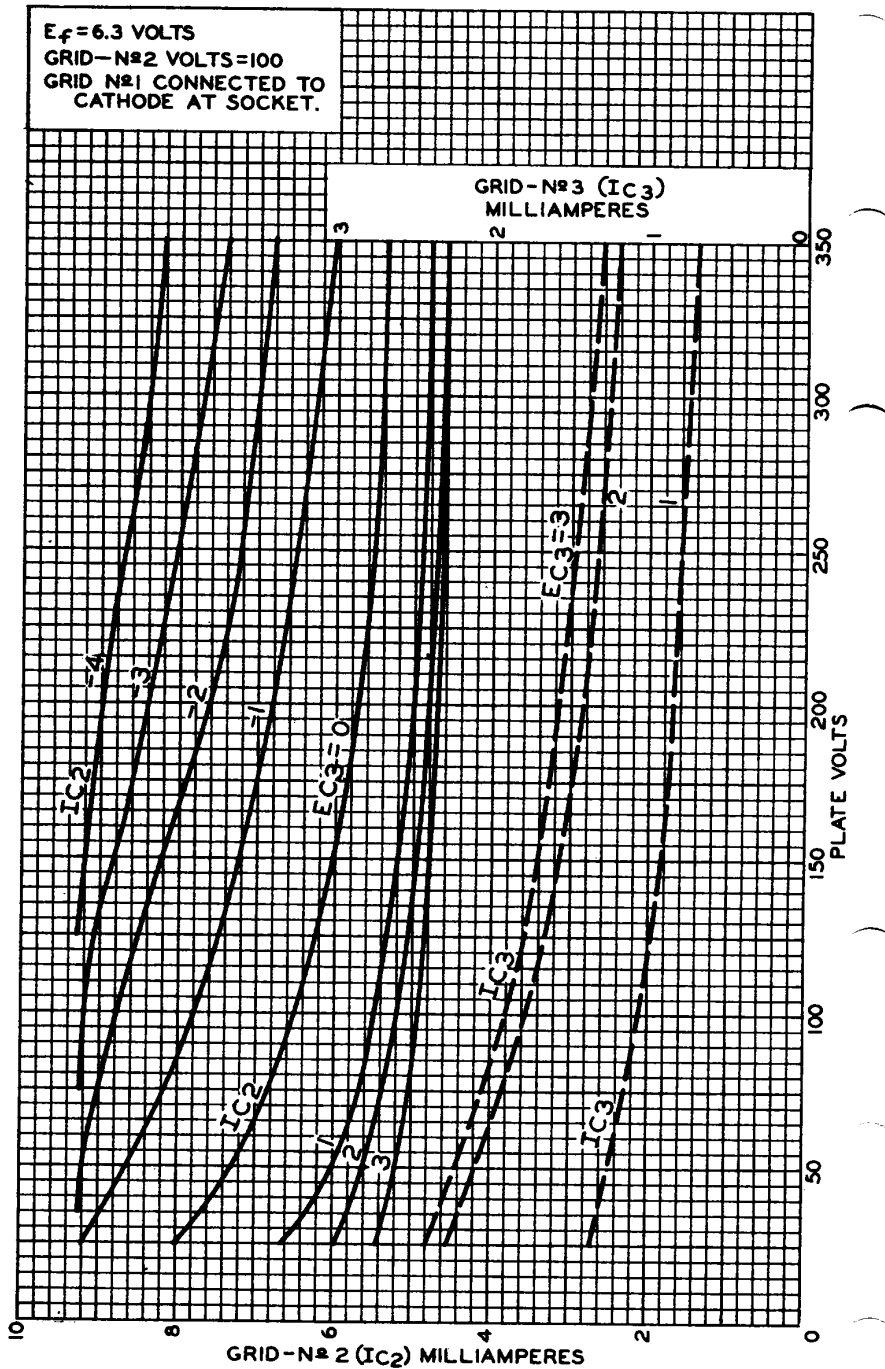


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DATA 3  
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## AVERAGE CHARACTERISTICS



92CM-8829R2

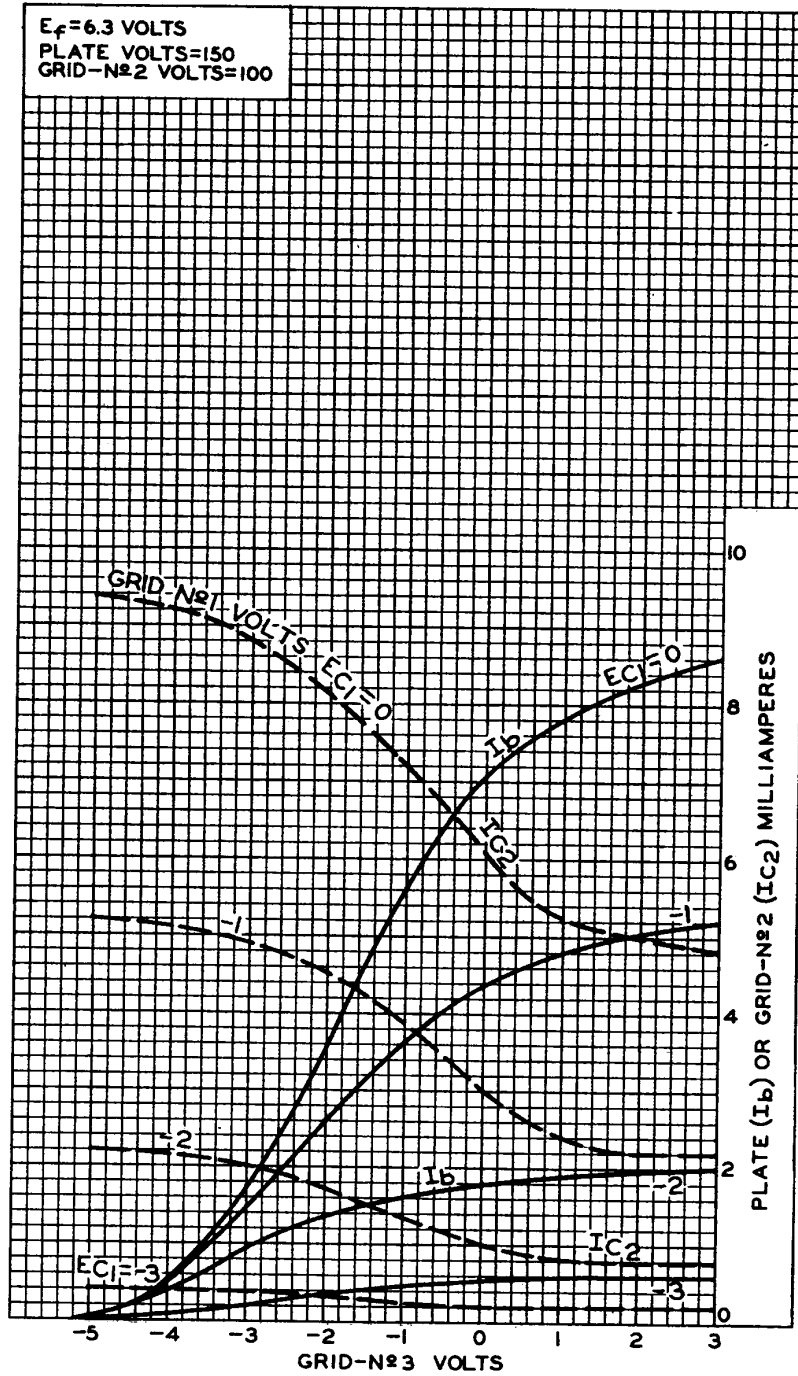
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## AVERAGE CHARACTERISTICS



92CM-8826R1

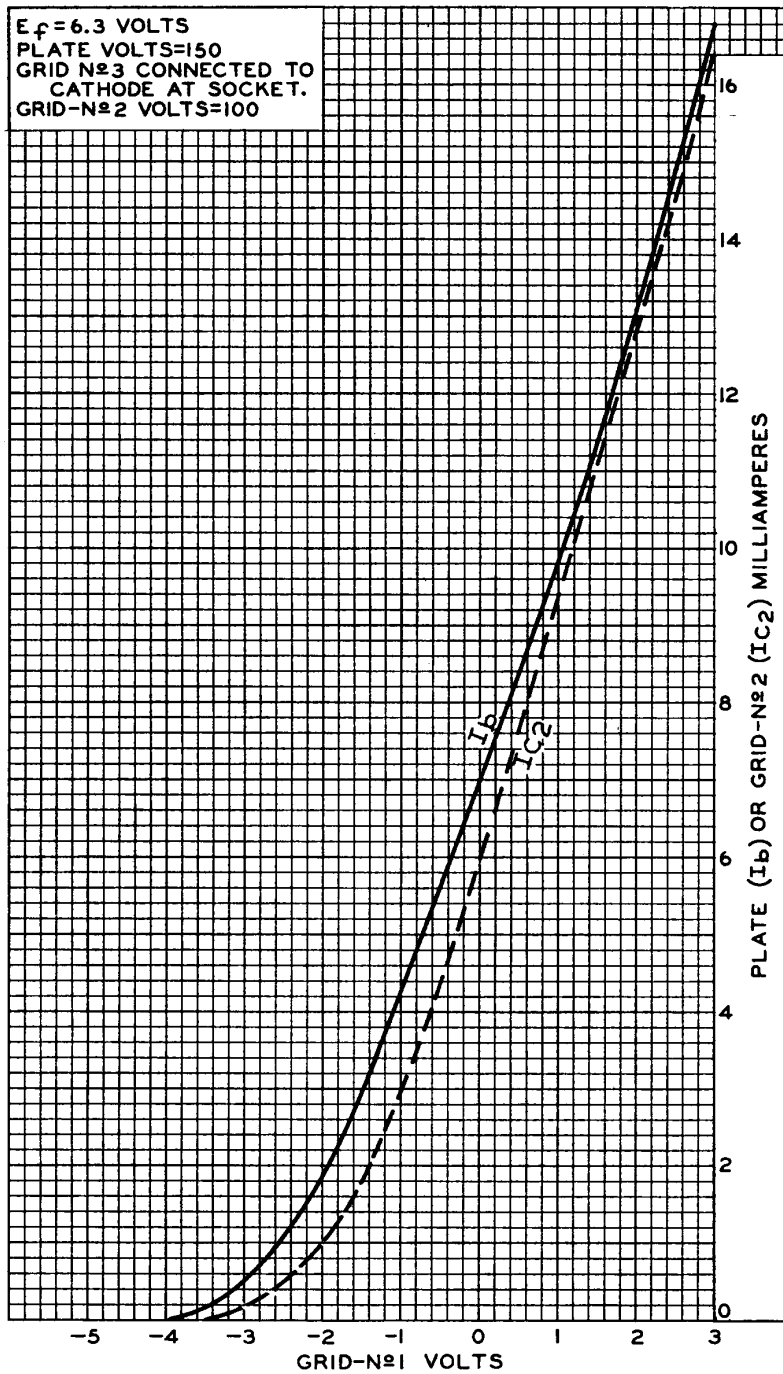


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DATA 4  
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## AVERAGE CHARACTERISTICS



92CM-8825R1

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