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## R-F AMPLIFIER PENTODE

MINIATURE REMOTE-CUTOFF TYPE

For use with 12-cell storage-battery supply

### GENERAL DATA

#### Electrical:

Heater, for Unipotential Cathode:

Voltage . . . . .	26.5	ac or dc volts
Current . . . . .	0.07	amp

Direct Interelectrode Capacitances:<sup>0</sup>

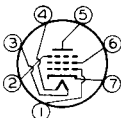
Grid No.1 to Plate . . . . .	0.0035 max.	μf
Input . . . . .	6.0	μf
Output . . . . .	5.0	μf

#### Mechanical:

Mounting Position . . . . .	Any
Maximum Overall Length . . . . .	2-1/8"
Maximum Seated Length . . . . .	1-7/8"
Length from Base Seat to Bulb Top (excluding tip) . . . . .	1-1/2" ± 3/32"
Maximum Diameter . . . . .	3/4"
Bulb . . . . .	T-5-1/2
Base . . . . .	Miniature Button 7-Pin

Basing Designation for BOTTOM VIEW . . . . . 7BK1

Pin 1 - Grid No.1	Pin 4 - Heater
Pin 2 - Grid No.3, Internal Shield	Pin 5 - Plate
Pin 3 - Heater	Pin 6 - Grid No.2
	Pin 7 - Cathode



### CLASS A<sub>1</sub> AMPLIFIER

#### Maximum Ratings, Design-Center Values:

PLATE VOLTAGE . . . . .	250 max.	volts
GRID-No.2 (SCREEN) VOLTAGE . . . . .	100 max.	volts
GRID-No.2 SUPPLY VOLTAGE . . . . .	250 max.	volts
PLATE DISSIPATION . . . . .	3 max.	watts
GRID-No.2 DISSIPATION . . . . .	0.4 max.	watt
GRID-No.1 (CONTROL GRID) VOLTAGE:		
Negative bias value . . . . .	50 max.	volts
Positive bias value . . . . .	0 max.	volts
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 . . . . .	26.5	250	volts
Grid No.3 (Suppressor) . . . . .	Connected to cathode	at socket	
Grid-No.2 Voltage . . . . .	26.5	100	volts
Grid-No.1 Voltage:			
From a grid-No.1 resistor of . . . . .	2	-	megohms
From a cathode resistor of . . . . .	-	125	ohms

<sup>0</sup> With external shield connected to cathode.

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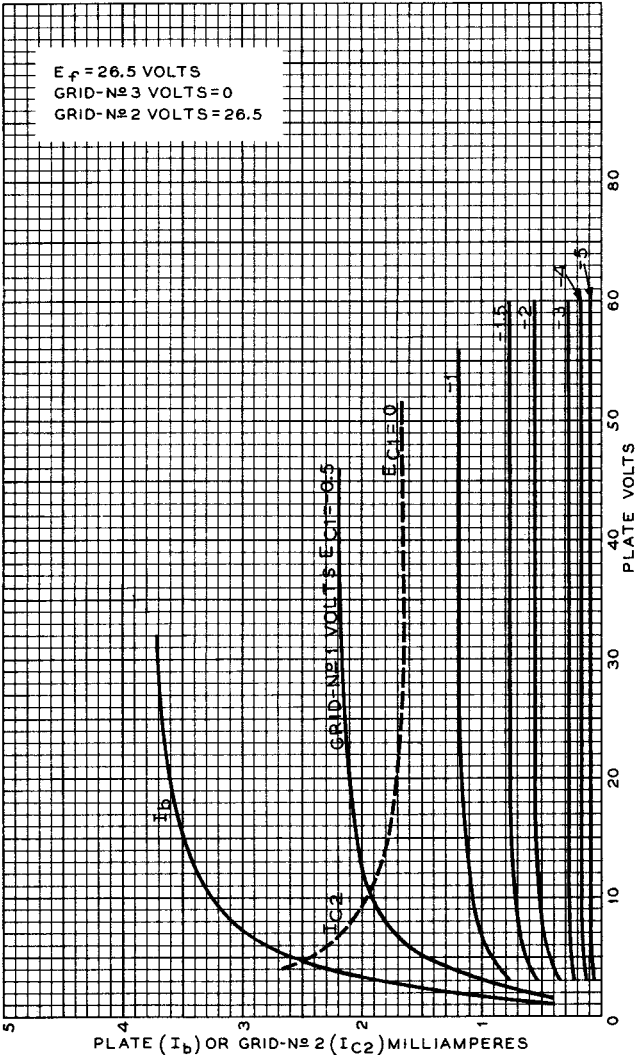
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Plate Resistance (Approx.) . . . .	0.25	1.0	megohm
Transconductance . . . . .	2000	4000	$\mu$ mhos
Grid-No.1 Bias (Approx.) for transconductance of 40 $\mu$ mhos	-	-25	volts
Grid-No.1 Bias (Approx.) for transconductance of 20 $\mu$ mhos	-8	-	volts
Plate Current . . . . .	1.7	10.5	ma.
Grid-No.2 Current . . . . .	0.7	4.0	ma.



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# AVERAGE PLATE CHARACTERISTICS



JULY 24, 1946

TUBE DEPARTMENT  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6788

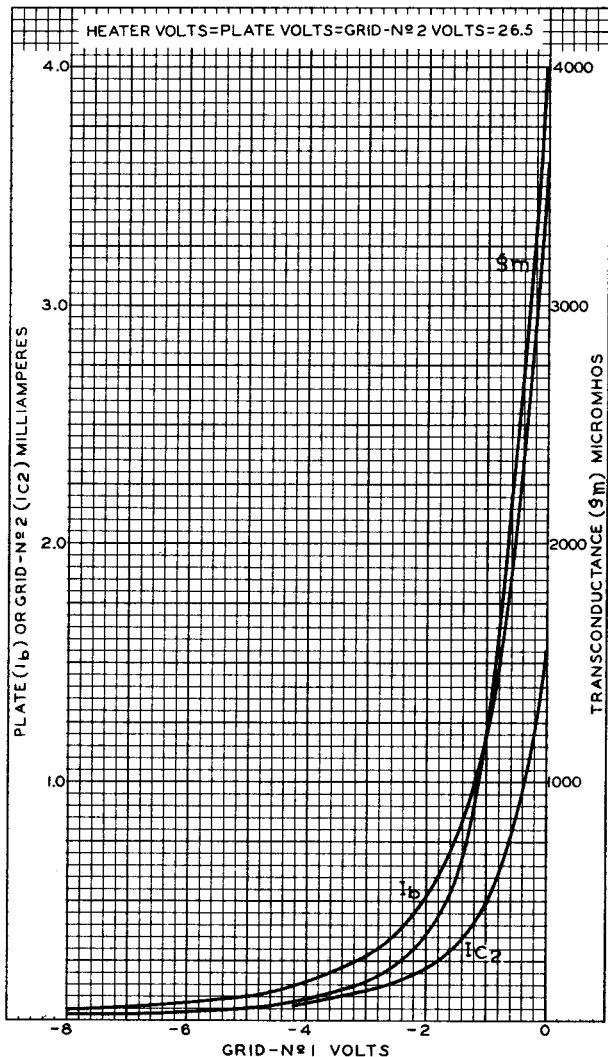
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## AVERAGE CHARACTERISTICS



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TUBE DIVISION

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### AVERAGE PLATE CHARACTERISTICS

