



26D6

PENTAGRID CONVERTER

MINIATURE TYPE

For use with 12-cell storage-battery supply

26D6

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage.	26.5	ac or dc volts
Current.	0.07	amp

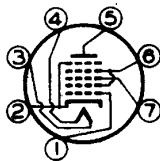
Direct Interelectrode Capacitances:

Grid #3 to All Other Electrodes (RF Input)	7.5	μf
Plate to All Other Electrodes (Mixer Output)	14	μf
Grid #1 to All Other Electrodes (Osc. Input)	5.8	μf
Grid #3 to Plate	0.30 max.	μf
Grid #1 to Grid #3	0.15 max.	μf
Grid #1 to Plate	0.03 max.	μf
Grid #1 to External Shield and All Other Electrodes Except Cathode & Grid No.5	2.9	μf
Grid #1 to Cathode & Grid #5	2.8 [▲]	μf
Cathode to External Shield and All Other Electrodes Except Grid #1	15.5	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	7CH

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



CONVERTER

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE.	300 max. volts
GRIDS-No.2 & No.4 (SCREEN) VOLTAGE	100 max. volts
GRIDS-No.2 & No.4 SUPPLY VOLTAGE	300 max. volts
PLATE DISSIPATION.	1.0 max. watt
GRIDS-No.2 & No.4 DISSIPATION.	1.0 max. watt
TOTAL CATHODE CURRENT.	14 max. ma.
GRID-No.3 (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

● with external shield connected to cathode.
▲ with external shield connected to other electrodes.

JUNE 20, 1946

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TENTATIVE DATA

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PENTAGRID CONVERTER

Characteristics - Separate Excitation: [□]				
Plate Voltage.	26.5	100	250	volts
Grids-No.2 & No.4 Voltage. .	26.5	100	100	volts
Grid-No.3 Voltage.	-0.5	-1.5	-1.5	volts
Grid-No.1 (Oscillator- Grid) Resistor	20000	20000	20000	ohms
Plate Resistance (Approx.) .	-	0.5	1.0	megohm
Conversion Transconductance	270	455	475	μmhos
Conversion Transconductance (Approx.)*	-	4	4	μmhos
Conversion Transconductance (Approx.)**	8	-	-	μmhos
Plate Current.	0.45	2.8	3.0	ma.
Grids-No.2 & No.4 Current. .	1.6	8.0	7.8	ma.
Grid-No.1 Current.	0.1	0.5	0.5	ma.
Total Cathode Current. . . .	2.15	11.3	11.3	ma.
Characteristics of Oscillator Section: [▲]				
Plate Voltage.	26.5	100	volts	
Grids-No.2 & No.4 Voltage.	26.5	100	volts	
Grid-No.3 Voltage.	0	0	volts	
Grid-No.1 Voltage.	0	0	volts	
Amplification Factor	-	22		
Transconductance	4500	7200	μmhos	
Plate Current.	5.5	27	ma.	
<p>□ The characteristics shown with separate excitation correspond very closely with those obtained in a self-excited oscillator circuit operating with zero bias.</p> <p>* With grid-No.3 bias of -30 volts.</p> <p>** With grid-No.3 bias of -6 volts.</p> <p>▲ Measured between grid No.1 and grids-No.2 and No.4 connected to plate (not oscillating).</p> <p style="text-align: center;"><i>The curves under Type 6BE6 also apply to the 26D6</i></p>				

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TENTATIVE DATA

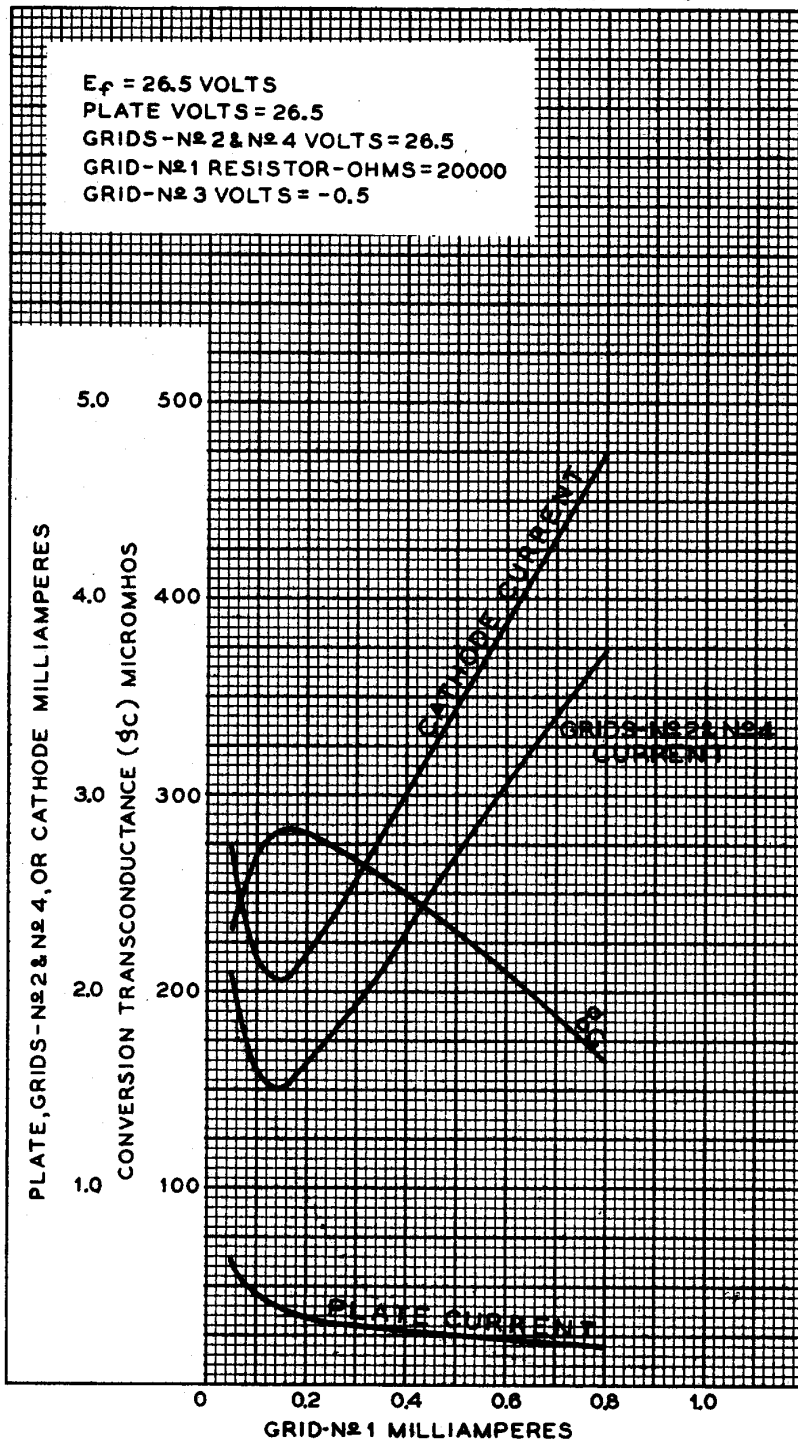
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OPERATION CHARACTERISTICS WITH SEPARATE OSCILLATOR EXCITATION



AUGUST 1, 1946

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92CM-6790

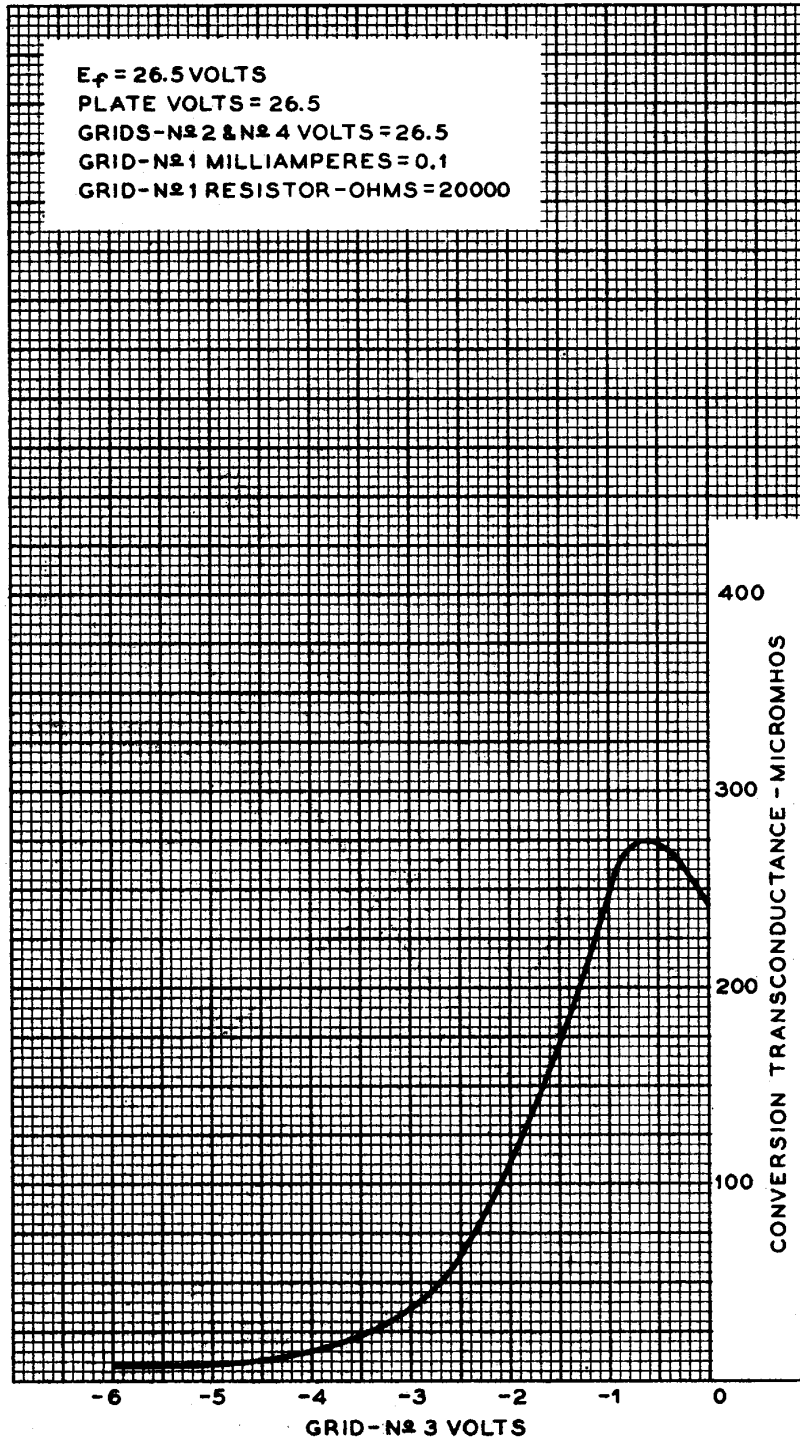


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OPERATION CHARACTERISTICS
WITH SEPARATE OSCILLATOR EXCITATION

26D6

$E_f = 26.5$ VOLTS
PLATE VOLTS = 26.5
GRIDS-N \# 2 & N \# 4 VOLTS = 26.5
GRID-N \# 1 MILLIAMPERES = 0.1
GRID-N \# 1 RESISTOR-OHMS = 20000



JULY 31, 1946

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