



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[●] μufPlate to All Other Electrodes (Mixer Output) 14[●] μufGrid #1 to All Other Electrodes (Osc. Input) 5.8[●] μuf

Grid #3 to Plate. 0.30 max. μuf

Grid #1 to Grid #3 0.15 max. μuf

Grid #1 to Plate 0.03 max. μuf

Grid #1 to External Shield and All Other
Electrodes Except Cathode & Grid No.5 2.9 μufGrid #1 to Cathode & Grid #5 2.8[▲] μufCathode to External Shield and All Other
Electrodes Except Grid #1 15.5 μuf**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 2 - Cathode,

Grid No.5

Pin 3 - Heater

Pin 4 - Heater

Pin 5 - Plate

Pin 6 - Grid No.2,

Grid No.4

Pin 7 - Grid No.3

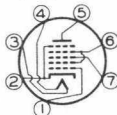
CONVERTER**Maximum Ratings, Design-Center Values:**

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

TUBE DIVISION

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

26D6



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PENTAGRID CONVERTER

Characteristics - Separate Excitation: $\square$

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	μ hos
Conversion Transconductance (Approx.) *	-	4	4	μ hos
Conversion Transconductance (Approx.) **	8	-	-	μ hos
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: Δ

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	μ hos
Plate Current.	5.5	27	ma.

$\square$ The characteristics shown with separate excitation correspond very closely with those obtained in a self-excited oscillator circuit operating with zero bias.

* With grid-No. 3 bias of -30 volts.

** With grid-No. 3 bias of -6 volts.

Δ Measured between grid No. 1 and grids-No. 2 and No. 4 connected to plate (not oscillating).

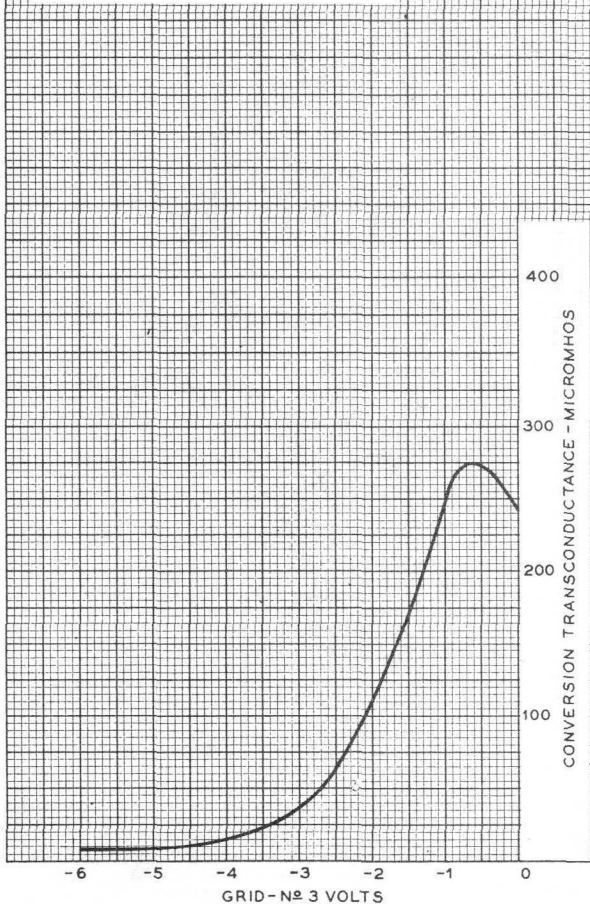
*The curves under Type 6BE6
also apply to the 26D6*



26D6

26D6
OPERATION CHARACTERISTICS
WITH SEPARATE OSCILLATOR EXCITATION

$E_f = 26.5$ VOLTS
PLATE VOLTS = 26.5
GRIDS-№ 2 & № 4 VOLTS = 26.5
GRID-№ 1 MILLIAMPERES = 0.1
GRID-№ 1 RESISTOR - OHMS = 20000



JULY 31, 1946

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6789

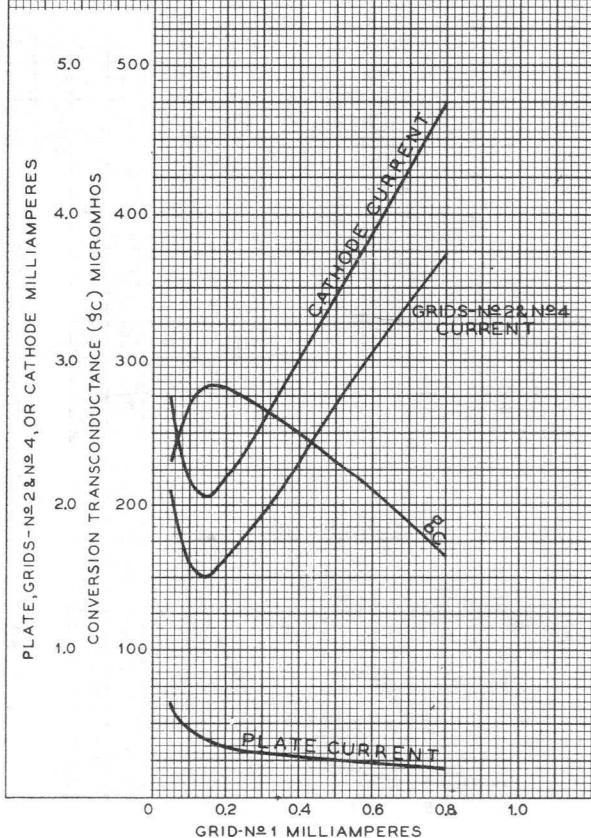
26D6



26D6

OPERATION CHARACTERISTICS WITH SEPARATE OSCILLATOR EXCITATION

$E_f = 26.5$ VOLTS
 PLATE VOLTS = 26.5
 GRIDS-Nº 2 & Nº 4 VOLTS = 26.5
 GRID-Nº 1 RESISTOR-OHMS = 20000
 GRID-Nº 3 VOLTS = -0.5



AUGUST 1, 1946

TUBE DEPARTMENT

92CM-6790

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY