

PENTAGRID CONVERTER Single-Ended Metal Type

(TENTATIVE DATA)

HEATER VOLTAGE (A.C. or D.C.) HEATER CURRENT	6.3 [©] Volts 0.3 ^{©©} Ampere
DIRECT INTERELECTRODE CAPACITANCES: O Grid #4 to Plate	0.3 max. µµf
Grid #4 to Grid #2	0.2 μμ f
Grid #4 to Grid #1 Grid #1 to Grid #2	0.15
Grid #4 to All Other Flectrodes = R-F Input	10 μμf
Grid #2 to All Other Electrodes except Grid #1 = Osc. Output Grid #1 to All Other Electrodes	3 μμf
except Grid #2 = Osc. Input Plate to All Other Electrodes = Mixer Output	4.8 µµf 12 µµf
MAXIMUM OVERALL LENGTH MAXIMUM DIAMETER	2-5/8 " 1-1/4 "
BULB	Metal Shell, MT-8
BASE BASING DESIGNATION	Small Wafer Octalox 8-Pin 8X
D Nominal value is 7 volts.	

Nominal value is 0.32 ampere. O With shell connected to cathode.

Converter Service

PLATE VOLTAGE SCREEN (Grids #3 & #5) VOLTAGE ANODE-GRID (Grid #2) VOLTAGE ANODE-GRID (Grid #2) VOLTAGE SUPPLY TOTAL CATHODE CURRENT TOTAL CATHODE CURRENT	00	250 max.* 100 max.* 200 max.* 250 max.* 14 max.*	Voits
Heater Voltage #	6.3	6.3	Volts
Plate Voltage	100	250	Volts
Screen Voltage	50	100	Volts
Anode-Grid Voltage	100	250●	Volts
Control-Grid Voltage	-1.5 min.*	-3 min.*	Volts
Oscillator-Grid (Grid #1) Resistor	50000	50000	Ohms
Plate Resistance (Approx.)	0.6	0.36	Megohm
Conversion Transconductance	360	550	Micromhos
Grid Bias (Grid #4) for conversion			
Transconductance = 3 micromhos	-20	-	Volts
Grid Bias (Grid #4) for conversion			
Transconductance = 6 micromhos	-	- 35	Volts
Plate Current	1.1	3.5	Milliamperes
Sc ree n Current	1.1 1.3	3.5 2.7	Milliamperes
Anode-Grid Current	2	4	Milliamperes Milliamperes
Oscillator-Grid Current	0.25	0.4	Milliampere

pesign value for 117-volt line.

Anode-grid supply voltages in excess of 200 volts require the use of a 20000-ohm voltage-dropping resistor by-passed by 0.1 µf condenser.

This is an Anode-Grid Supply voltage applied through 20000-ohm voltage-dropping resistor.

Pin Connections

Pin 6 - Grid #4
Pin 7 - Cathode
Pin 8 - Heater Pin 1-Heater Pin 2 — Plate Pin 3 — Grid #2 Pin 4 — Grid #1 Pin 5 — Grids #3 & #5 Plug - Shell

(Pin numbers are according to RMA system)

Operating Position

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In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.