

## Electronics Department

## G E N E R A L    E L E C T R I C

## Pliotron 5660--Preliminary Technical Information

The 5660 is a duplex-diode pentode similar to the 12C8 designed for reliable performance under conditions of severe vibration and intermittent operation.

## TECHNICAL INFORMATION

## GENERAL

## Electrical Data

Cathode - Indirectly Heated

Heater Voltage (A-C or D-C)	12.6	Volts
Heater Current	0.150	Ampere

## Mechanical Data

Envelope - MF-8

Cap - Miniature

Base - Small Wafer Octal 8-Pin

Mounting Position - Any

Direct Interelectrode Capacitances\*

Grid to Plate	0.005	Maximum uuf
Input	6	uuf
Output	9	uuf

\* Shell connected to cathode.

## MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

## Maximum Ratings, Design Center

Plate Voltage	300	Volts
Screen Supply Voltage	300	Volts
Screen Voltage	125	Volts
Plate Dissipation	2.25	Watts
Screen Dissipation	0.3	Watts
Minimum External Grid Bias Voltage	0	Volts
Maximum Diode Current per Plate for Continuous Operation	1.0	Milliamperes

## Typical Operation

Pentode Section: Class A<sub>1</sub> Amplifier

Heater Voltage	12.6	Volts
Plate Voltage	250	Volts
Screen Voltage	125	Volts
Grid Voltage	-3	Volts
Plate Resistance, approximate	0.6	Megohm
Transconductance	1325	Micromhos

Typical Operation

Pentode Section: Class A<sub>1</sub> Amplifier

Plate Current	10	Milliamperes
Screen Current	2.3	Milliamperes
Grid Bias For Cathode Current Cut-Off, approximate	-21	Volts
Vibration Output, maximum**	25	Millivolts

Diode Sections:

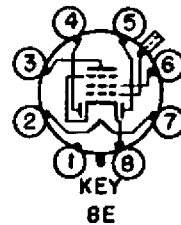
Minimum Diode Current per Plate With 10 Volts D-C Applied	0.8	Milliamperes
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\*\* RMS voltage measured across a load resistor of 10,000 ohms when tube is vibrated with a total sinusoidal motion of .08 inches at 25 cycles per second. Average output is less than value shown.

TERMINAL CONNECTIONS

- Pin 1 - Shell
- Pin 2 - Heater
- Pin 3 - Pentode Plate
- Pin 4 - Diode Plate #2
- Pin 5 - Diode Plate #1
- Pin 6 - Grid #2
- Pin 7 - Heater
- Pin 8 - Cathode and Grid #3
- Cap - Grid #1

BASING DIAGRAM



RADIO MANUFACTURERS ASSOCIATION  
ENGINEERING DEPARTMENT

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VIBRATION OUTPUT

