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 - MT-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_1 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_1 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

** 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

8E

RADIO MANUFACTURERS ASSOCIATION
ENGINEERING DEPARTMENT

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VIBRATION OUTPUT