

Electronics Department

GENERAL ELECTRIC

Pliotron 5661--Preliminary Technical Information

The 5661 is a voltage amplifier pentode similar to the 12SK7 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

Base - Small Wafer Octal 8-Pin

Mounting Position - Any

Direct Interelectrode Capacitances*

Grid to Plate	.003	Maximum uuf
Input	6.0	uuf
Output	7.0	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	4.0	Watts
Screen Dissipation	0.4	Watts
Minimum External Control Grid Bias Voltage	0	Volts

Typical Operation

Class A₁ Amplifier

Heater Voltage	12.6	12.6	Volts
Plate Voltage	100	250	Volts
Screen Voltage	100	100	Volts
Control Grid Voltage	-1	-3	Volts
Suppressor - Connected to Cathode at Socket			
Plate Resistance, approximate	0.12	0.8	Megohm
Transconductance	2350	2000	Micromhos
Control Grid Voltage for Transcon- ductance = 10, approximate	-35	-35	Volts

Typical Operation

Class A₁ Amplifier (Cont'd)

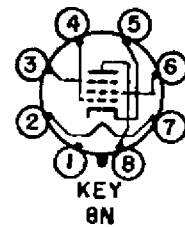
Plate Current	13	9.2	Milliamperes
Screen Current	4	2.6	Milliamperes
Vibration Output, maximum**	---	15	Millivolts

** RMS voltage measured across a load resistor of 2,000 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 and internal shield
- Pin 2 - Heater
- Pin 3 - Grid #3
- Pin 4 - Grid #1
- Pin 5 - Cathode
- Pin 6 - Grid #2
- Pin 7 - Heater
- Pin 8 - Plate

BASING DIAGRAM



RADIO MANUFACTURERS ASSOCIATION
ENGINEERING DEPARTMENT

Release 616A

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VIBRATION OUTPUT

PERCENT OF TUBES HAVING OUTPUT LESS THAN VALUE SHOWN

