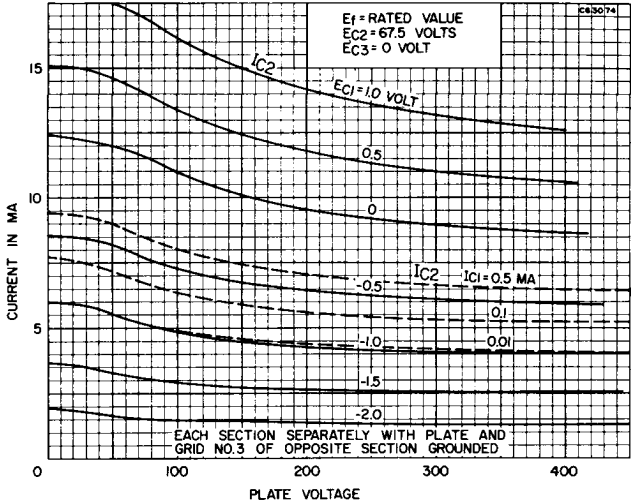


AVERAGE SCREEN CHARACTERISTICS



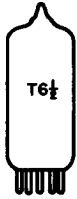
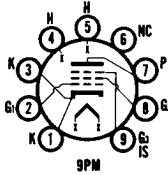
IF AMPLIFIER

6HT6

3HT6, 4HT6

Semi-remote Cutoff Pentode

Construction Miniature T-6½
Base Button 9 Pin, E9-1
Basing 9PM
Outline 6-2
Maximum Diameter 0.875 In.
Maximum Seated Height 1.937 In.
Maximum Overall Height 2.187 In.



ELECTRICAL DATA
HEATER OPERATION

	3HT6	4HT6	6HT6
Heater Voltage.....	3.15	4.2	6.3 Volts
Heater Current	600	450	300 Ma
Heater Warm-up Time	11	11	— Seconds
Maximum Heater-Cathode Voltage			
Heater Negative with Respect to Cathode			
Total DC and Peak.....			200 Volts
Heater Positive with Respect to Cathode			
DC			100 Volts
Total DC and Peak.....			200 Volts

DIRECT INTERELECTRODE CAPACITANCES

	Shielded (1)	Unshielded
Grid 1 to Plate	0.024	0.031 Pf
Input	8.70	8.70 Pf
Output	3.00	2.15 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.)	250 Volts
Grid 2 Supply Voltage (Max.)	250 Volts
Grid 2 Voltage	See Rating Chart (Gen. Info. Sec.)
Plate Dissipation (Max.)	2.5 Watts
Grid 2 Dissipation (Max.)	0.6 Watts
Grid 1 Negative Voltage (Max.)	50 Volts
Cathode Current (Max.)	25 Ma
Grid 1 Circuit Resistance:	
Cathode Resistor Bias (Max.)	1 Megohm
Fixed Bias (Max.)	0.25 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

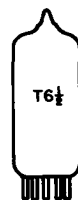
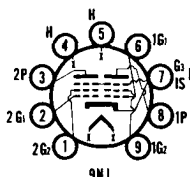
Plate Voltage	125 Volts
Grid 3 (Suppressor)	Connected to Cathode at Socket
Grid 2 Voltage	125 Volts
Cathode Bias Resistor	56 Ohms
Plate Resistance	0.143 Megohm
Transconductance	14,000 μ mhos
Plate Current	15 Ma
Grid 2 Current	4.0 Ma
Grid 1 Cutoff Bias ⁽²⁾	-6.7 Volts
Cutoff Transconductance:	
For Grid 1 Volts = -1.5	12,000 μ mhos
For Grid 1 Volts = -3.5	300 μ mhos
For Grid 1 Volts = -4.5	100 μ mhos
Hot Input Resistance ⁽³⁾	12,700 Ohms
Hot Input Capacitance ⁽³⁾	7.45 Pf

NOTES:

- (1) With JEDEC Shield No. 315 connected to ground.
 (2) For transconductance of 50 μ mhos.
 (3) Measured at 44 MHz with unbypassed 56 Ohm cathode resistance.

6HU8/ELL80**12HU8/PLL80****AF AMPLIFIER****Double Pentode**

Construction	T-6½
Base	E9-1
Basing	.9NJ
Outline	.6-4
Maximum Diameter	0.875 In.
Maximum Seated Height	2.812 In.
Maximum Overall Height	3.062 In.

**ELECTRICAL DATA****HEATER OPERATION**

	6HU8/ELL80	12HU8/PLL80
Heater Voltage	6.3	12 Volts
Heater Current	550	300 Ma

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

	Section 1	Section 2
Grid to Plate	0.20	1.5 pf
Input: g to (h + g ² + g ³ + IS)	7.0	7.0 pf
Output: p to (h + k + g ² + g ³ + IS)	4.5	4.5 pf

RATINGS (Design Maximum Values) Each Section

Plate Voltage (Max.)	300 Volts
Plate Dissipation (Max.)	6 Watts
Positive Grid No. 1 Voltage (Max.)	0 Volts
Negative Grid No. 1 Voltage (Max.)	100 Volts

CHARACTERISTICS AND TYPICAL OPERATION**Power Amplifier Section**

Plate Voltage	250 Volts
Grid No. 2 Voltage	250 Volts
Plate Current	26 Ma
Transconductance	6000 μ mhos
Amplification Factor	100
Load Resistance	10,000 Ohms
Power Output	3 Watts

Class B Amplifier—Push-Pull

Plate Voltage	250 Volts
Grid No. 2 Voltage	250 Volts
Plate Current (Zero Signal)	11 Ma
Total Distortion	5 Percent
Load Resistance	10,000 Ohms