

ELECTRICAL DATA**HEATER OPERATION**

Heater Voltage	12.6/6.3 Volts
Heater Current	300/600 Ma
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	180 Volts
Heater Positive with Respect to Cathode	180 Volts

DIRECT INTERELECTRODE CAPACITANCES

	Section No. 1	Section No. 2
Grid to Plate	2.5	2.5 Pf
Grid to Cathode and Heater	6.5	6.5 Pf
Plate to Cathode and Heater	0.7	0.55 Pf
Plate (Section 1) to Plate (Section 2)	1.3	Pf

RATINGS (Design Center Rating System)**Class A1 Amplifier (Each Section)**

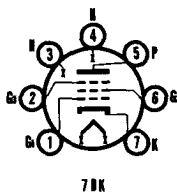
Plate Voltage (Max.)	300 Volts
Grid Voltage	
Negative Bias Value (Max.)	-50 Volts
Positive Bias Value (Max.)	0 Volt
Plate Dissipation (Max.)	1.5 Watts

CHARACTERISTICS AND TYPICAL OPERATION

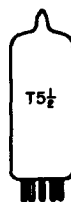
Plate Voltage	250 Volts
Grid Voltage	-2 Volts
Amplification Factor	100
Plate Resistance (Approx.)	31,800 Ohms
Transconductance	3200 μ mhos
Plate Current	2.5 Ma
Grid Circuit Resistance (Contact Bias Operation)	5 Megohms

12EK6**RF/IF AMPLIFIER****Sharp Cutoff Pentode**

Construction	Miniature T-5½
Base	Button 7 Pin, E7-1
Basing	.7BK
Outline	5-2
Maximum Diameter	0.750 In.
Maximum Seated Height	1.875 In.
Maximum Overall Height	2.125 In.



7BK

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

Heater Voltage ⁽¹⁾	12.6 Volts
Heater Current	200 Ma
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	16 Volts
Heater Positive with Respect to Cathode	16 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid to Plate (Max.)	0.032 Pf
Input: g1 to (h + k + g2 + g3)	10 Pf
Output: p to (h + k + g2 + g3)	5.5 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.)	16 Volts
Grid No. 2 Voltage (Max.)	16 Volts
Positive DC Grid No. 1 Voltage	0 Volt
Grid No. 1 Circuit Resistance (Max.)	10 Megohms

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	12.6 Volts
Grid No. 2 Voltage	12.6 Volts
Grid No. 1 Voltage ⁽²⁾	- Volt
Grid No. 1 Resistor	2.2 Megohms
Plate Current	4.4 Ma
Grid No. 2 Current	2.0 Ma
Transconductance	4200 μ mhos
Plate Resistance (Approx.)	40,000 Ohms
Grid No. 1 Voltage for Ib = 10 μ a	-4 Volts

NOTES:

- (1) This tube is intended for use in automobile radios operated from a nominal 12 volt battery. Design of the tube is such that the heater will operate satisfactorily over the range