

ELECTRICAL DATA

HEATER OPERATION

	4JK6	5JK6	6JK6
Heater Voltage.....	3.7	4.9	6.3 Volts
Heater Current	600	450	350 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 (Unshielded)

Grid No. 1 to Plate (Max.).....	0.02 Pf
Input: g_1 to $(h + k + g_2 + g_3 + IS)$	9.5 Pf
Output: p to $(h + k + g_2 + g_3 + IS)$	2.7 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.)	275 Volts
Grid No. 2 Supply Voltage (Max.)	275 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)
Plate Dissipation (Max.)	2.5 Watts
Grid No. 2 Dissipation (Max.)	0.6 Watt
Cathode Current (Max.)	22 Ma
Grid No. 1 Circuit Resistance (Self Bias) (Max.)	0.5 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier

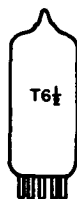
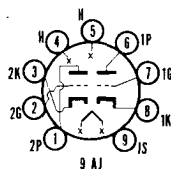
Plate Voltage	125 Volts
Grid No. 3 Voltage	Connected to Cathode at Socket
Grid No. 2 Voltage	125 Volts
Cathode Bias Resistor	68 Ohms
Plate Current	11.5 Ma
Grid No. 2 Current	3.9 Ma
Transconductance	18,000 μ mhos
Plate Resistance (Approx.)	0.15 Megohm
Grid No. 1 Voltage for $I_b = 20 \mu A$ (Approx.)	-3.5 Volts
R Input at 44 MHz	4000 Ohms

RF AMPLIFIER OSCILLATOR and MIXER

6JK8
8JK8, 17JK8

Double Dissimilar Triode

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



ELECTRICAL DATA

HEATER OPERATION

	17JK8	8JK8	6JK8
Heater Voltage.....	16.8	8.4	6.3 Volts
Heater Current	150	300	400 Ma
Heater Warm-up Time	17	—	— Seconds
Maximum Heater-Cathode Voltage			
Heater Negative with Respect to Cathode			
Total DC and Peak.....			100 Volts
Heater Positive with Respect to Cathode			
Total DC and Peak.....			100 Volts

DIRECT INTERELECTRODE CAPACITANCES (Shielded)

	Section No. 1	Section No. 2
Grid to Plate	1.4	0.60 Pf
Input: g to $(h + k + IS + E.S.)$	3.0	5.0 Pf
Output: p to $(h + k + IS + E.S.)$	1.0	4.0 Pf
Heater to Cathode	2.8	2.8 Pf

Grid to Grid (Max.)	0.003	Pf
Plate to Plate (Max.)	0.009	Pf

RATINGS (Design Maximum Rating System)

	Oscillator Section No. 1	R-F Amp. Section No. 2
Plate Voltage (Max.)	165	200 Volts
Plate Dissipation (Max.)	1.0	2.0 Watts
DC Cathode Current (Max.)	22	22 Ma
Negative Grid Voltage (Max.)	50	50 Volts
Grid Circuit Resistance (Self Bias) (Max.)	1.0	1.0 Megohms

CHARACTERISTICS AND TYPICAL OPERATION

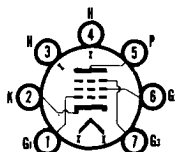
	Oscillator Section No. 1	R-F Amp. Section No. 2
Class A1 Amplifier		
Plate Voltage	100	135 Volts
Grid Voltage	-1.0	-1.2 Volts
Plate Current	5.3	10 Ma
Transconductance	6800	13,000 μ mhos
Amplification Factor	55	70
Plate Resistance (Approx.)	8000	5400 Ohms
Ec for Ib = 20 μ a (Approx.)	-4.4	— Volts
Ec for Gm = 150 μ mhos (Approx.)	—	-5.5 Volts
Ec for Gm = 1500 μ mhos (Approx.)	—	-2.8 Volts

6JL6

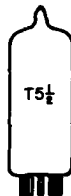
4JL6, 5JL6

AGC/IF AMPLIFIER**Semi-Remote Cutoff Pentode**

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



7CM

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

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Maximum Heater-Cathode Voltage

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Total DC and Peak	200 Volts
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DC	100 Volts
Total DC and Peak	200 Volts

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Grid No. 1 to Plate (Max.)	0.02 Pf
Input: g1 to (h + k + g2 + g3 + IS)	9.3 Pf
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RATINGS (Design Maximum Rating System)

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Cathode Current (Max.)	22 Ma
Grid No. 1 Circuit Resistance (Self Bias) (Max.)	0.5 Megohm

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier**

Plate Voltage	125 Volts
Grid No. 2 Voltage	60 Volts
Grid No. 3 Voltage	Connected to Cathode at Socket
Cathode Bias Resistor ⁽¹⁾	68 Ohms