

Transconductance	925	1175 μ mhos
Amplification Factor	100	100
Plate Resistance	110,000	85,000 Ohms
Average Diode Current with 10 Volts DC Applied (Each Diode) ⁽¹⁾	2.0	2.0 Ma

NOTE:

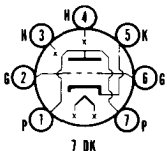
(1) Test condition only.

6T4
2T4

Color Television Type
UHF OSCILLATOR

Low Mu Triode

Construction Miniature T-5½
Base Button 7 Pin, E7-1
Basing 7DK
Outline 5-1
Maximum Diameter 0.750 In.
Maximum Seated Height 1.500 In.
Maximum Overall Height 1.750 In.



ELECTRICAL DATA

HEATER OPERATION

	2T4	6T4
Heater Voltage	2.35	6.3 Volts
Heater Current	600	225 Ma
Heater Warm-up Time	11	— Seconds
Maximum Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		
Total DC and Peak		50 Volts
Heater Positive with Respect to Cathode		
DC		25 Volts
Total DC and Peak		50 Volts

DIRECT INTERELECTRODE CAPACITANCES

	Shielded ⁽¹⁾	Unshielded
Grid to Plate	1.7	1.7 Pf
Input	3.3	2.9 Pf
Output	1.8	0.25 Pf
Heater to Cathode ⁽²⁾	2.9	3.0 Pf
Grid No Cathode ⁽²⁾	2.6	2.6 Pf
Plate to Cathode ⁽²⁾	0.18	0.20 Pf

Grounded Grid Operation

Input	5.7	5.5 Pf
Output	3.4	1.8 Pf

RATINGS (Design Center Rating System)

Plate Voltage (Max.)	200 Volts
Plate Dissipation (Max.)	3.5 Watts
Grid Current (Max.)	8.0 Ma
Cathode Current (Max.)	30 Ma

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	80 Volts
Cathode Resistor	150 Ohms
Plate Current	18 Ma
Transconductance	7000 μ mhos
Amplification Factor	13
Plate Resistance	1860 Ohms
Grid Voltage for Ib = 50 μ a	-15 Volts

Oscillator at 950 MHz

Plate Voltage	80 Volts
Grid Voltage (Self Bias)	-4 Volts
Grid Resistor	10,000 Ohms
Plate Current	18 Ma
Grid Current (Approx.)	400 μ a

NOTES:

- (1) Shield No. 316.
- (2) Measured between specified elements only. When external shield is used, it shall be grounded.

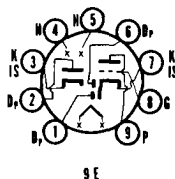
Color Television Type

**CLAMPER or DETECTOR
VOLTAGE AMPLIFIER****6T8A**

5T8, 19T8

Triple Diode and High Mu Triode

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

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

	19T8	5T8	6T8A
Heater Voltage	18.9	4.7	6.3 Volts
Heater Current	150	600	450 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 to Plate	1.7 Pf
Input	1.6 Pf
Output	1.2 Pf
Grid to Any Diode Plate (Max.)	0.034 Pf
Diode No. 1 Input	3.8 Pf
Diode No. 2 Input	3.8 Pf
Diode No. 3 Input	3.4 Pf
Diode No. 2 Cathode to All	7.5 Pf

RATINGS (Design Center Rating System)

Plate Voltage (Max.)	300 Volts
Plate Dissipation (Max.)	1.0 Watt
Positive Grid Voltage (Max.)	0 Volt
Diode Current for Continuous Operation (Each Plate) (Max.)	5.0 Ma

CHARACTERISTICS AND TYPICAL OPERATION**Class A Amplifier**

Plate Voltage	100	250 Volts
Grid Voltage	-1.0	-3.0 Volts
Plate Current	0.8	1.0 Ma
Transconductance	1300	1200 μ mhos
Amplification Factor	70	70
Plate Resistance	54,000	58,000 Ohms
Average Diode Current with 5 Volt DC Applied (Each Plate) ...	—	20 Ma

Color Television Type

**AUDIO OUTPUT and
FM DETECTOR****6T10**

12T10

Double Dissimilar Pentode

Construction Compactron T-9
 Base Button 12 Pin, 12-70
 Basing 12EZ
 Outline 9-58
 Maximum Diameter 1.188 In.
 Maximum Seated Height 2.000 In.
 Maximum Overall Height 2.375 In.

