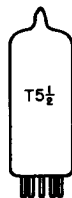
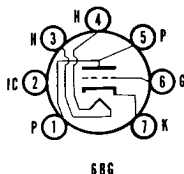


6C4

Color Television Type

**RF OSCILLATOR, AMPLIFIER,
or DETECTOR****Medium Mu Triode**

Construction Miniature T-5½
 Base Button 7 Pin, E7-1
 Basing 6BG
 Outline 5-2
 Maximum Diameter 0.750 In.
 Maximum Seated Height 1.875 In.
 Maximum Overall Height 2.125 In.

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

Heater Voltage.....	6.3 Volts
Heater Current	150 Ma
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 to Plate	1.4	1.6 Pf
Input: (g to h + k)	1.8	1.8 Pf
Output: (p to h + k)	2.5	1.3 Pf

RATINGS (Design Center Rating System)

	Class A1 Amplifier	Class C Telegraphy
Plate Voltage (Max.)	300	300 Volts
Plate Dissipation (Max.)	3.5	5.0 Watts
Plate Current (Max.)	—	25 Ma
Negative DC Grid Voltage (Max.)	—	-50 Volts
DC Grid Current (Max.)	—	8 Ma
Grid Circuit Resistance		
Fixed Bias (Max.)	0.25	0.25 Megohm
Cathode Bias (Max.)	1.0	1.0 Megohm

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier**

Plate Voltage	100	250 Volts
Grid Voltage ⁽²⁾	0	-8.5 Volts
Plate Current	11.8	10.5 Ma
Plate Resistance (Approx.)	6250	7700 Ohms
Transconductance	3100	2200 μ mhos
Amplification Factor	19.5	17
Grid Voltage (Approx.) for $I_b = 10 \mu$ a	-10	-25 Volts

Class C Telegraphy ⁽³⁾

Plate Voltage	300 Volts
Grid Voltage	-27 Volts
Plate Current	25 Ma
Grid Current (Approx.)	7 Ma
Grid Driving Power (Approx.)	0.35 Watt
Power Output (Approx.)	5.5 Watts

NOTES:

- (1) Shield No. 316 connected to cathode.
- (2) Transformer or impedance-type input coupling devices are recommended to minimize resistance in the grid circuit.
- (3) Approximately 2.5 watts output can be obtained when the 6C4 is used at 150 megacycles as an oscillator with a grid resistor of 10,000 Ohms and with maximum rated input.