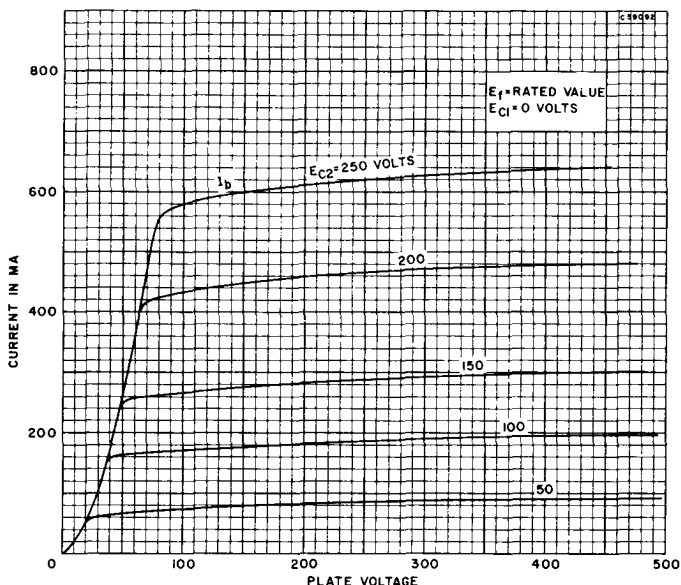


NOTES:

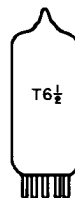
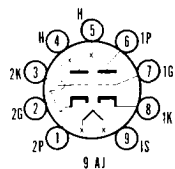
- (1) Pin No. 1 omitted on Base No. B6-81 and B6-84.
- (2) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.
- (3) In stages operating with grid leak bias, an adequate cathode bias resistor or other suitable means is required to protect the tube in the absence of excitation.

AVERAGE PLATE CHARACTERISTICS**6BQ7A/6BZ7****4BQ7A/4BZ7, 5BQ7A, 5BZ7**

Color Television Type

VHF CASCODE AMPLIFIER**Twin Medium Mu Triode**

Construction Miniature T-6½
 Base Button 9 Pin, E9-1
 Basing 9AJ
 Outline 6-2
 Maximum Diameter 0.875 In.
 Maximum Seated Height 1.938 In.
 Maximum Overall Height 2.188 In.

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

	4BQ7A/ 4BZ7	5BQ7A 5BZ7	6BQ7A/ 6BZ7
Heater Voltage.....	4.2	5.6	6.3 Volts
Heater Current	600	450	400 Ma
Heater Warm-up Time	11	11	— Seconds
Maximum Heater-Cathode Voltage			
Heater Negative with Respect to Cathode			
Total DC and Peak ⁽¹⁾			200 Volts
Heater Positive with Respect to Cathode			
DC			100 Volts
Total DC and Peak.....			200 Volts

DIRECT INTERELECTRODE CAPACITANCES (Shielded)⁽²⁾

	Section 1 ⁽³⁾	Section 2 ⁽³⁾
Grid to Plate	1.2	1.2 Pf
Input: g to (h + k + IS)	2.6	5.0 ⁽⁴⁾ Pf
Output: p to (h + k + IS)	1.2	2.2 ⁽⁴⁾ Pf
Plate to Cathode (Max.)	0.12	0.12 Pf
Heater to Cathode	2.6	2.6 Pf
Plate Section 1 to Plate Section 2 (Max.)	0.010	Pf
Plate Section 2 to Plate and Grid Section 1 (Max.) ..	0.024	Pf

RATINGS (Design Maximum Rating System) (Each Section)

Plate Voltage (Max.) ⁽¹⁾	250 Volts
Plate Dissipation (Max.)	2 Watts
Cathode Current (Max.)	20 Ma
Grid Circuit Resistance (Max.)	0.5 Megohm

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier (Each Section)**

Plate Voltage	150 Volts
Cathode Bias Resistor	220 Ohms
Plate Current	9 Ma
Transconductance	6400 μ mhos
Plate Resistance	5900 Ohms
Amplification Factor	38
Grid Voltage for $I_b = 100 \mu$ a (Approx.)	-6.5 Volts

NOTES:

- (1) Under cutoff conditions, in rf grounded grid circuits with direct coupled drive, this voltage may be as high as 300 volts.
- (2) EIA shield No. 315 connected to Pin No. 9.
- (3) Section No. 1 connects to Pins 6, 7, and 8. Section No. 2 connects to Pins 1, 2, and 3.
- (4) Read as grounded grid amplifier.

AVERAGE TRANSFER CHARACTERISTICS