

# RADIOTRON

## 6K7-GT

6K7-GT  
SHEET 1

### TRIPLE - GRID SUPER - CONTROL AMPLIFIER

Heater *	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Direct Interelectrode Capacitances (approx.):		
Grid to Plate <sup>•</sup>	0.005 max.	$\mu\mu\text{F}$
Input <sup>•</sup>	4.6	$\mu\mu\text{F}$
Output <sup>•</sup>	12	$\mu\mu\text{F}$
Cathode to Plate <sup>◦</sup>	5.5	$\mu\mu\text{F}$
Cathode to All Other Electrodes <sup>◦</sup>	9.0	$\mu\mu\text{F}$
Maximum Overall Length	3-5/16"	
Maximum Diameter	1-5/16"	
Bulb	T-9	
Cap	Skirted Miniature	
Mounting Position	Any	
Base	Intermediate Shell Octal 7-Pin	
Pin 1-No connection	Pin 5-Suppressor & Int. Shield	
Pin 2-Heater	Pin 7-Heater	
Pin 3-Plate	Pin 8-Cathode	
Pin 4-Screen	Cap -Grid	



BOTTOM VIEW

#### AMPLIFIER-Class A

Plate Voltage	300 max.	volts
Screen Voltage	125 max.	volts
Screen Supply Voltage	300 max.	volts
Grid Voltage	0 min.	volts
Plate Dissipation	2.75 max.	watt
Screen Dissipation	0.35 max.	watt

#### Typical Operation:

Plate Voltage	100	250	volts
Screen Voltage	100	100	volts
Grid Voltage <sup>Δ</sup>	-3	-3	volts
Suppressor	Connected to cathode at socket		
Plate Res.(approx.)	0.25	0.8	megohm
Transconductance	1500	1800	$\mu\text{mhos}$
Grid Bias for transcon- ductance of 2 $\mu\text{mhos}$	-50	-50	volts
Plate Current	8.0	8.2	mA.
Screen Current	2.2	2.0	mA.

\* In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

• With close-fitting shield-can connected to cathode.

◦ With close-fitting shield-can connected to all other electrodes.

Δ The grid circuit resistance should not exceed 3 megohms for a single controlled stage, 2.5 megohms for two controlled stages, or 2 megohms for three controlled stages.

For characteristic curves see under type 6U7-G.