

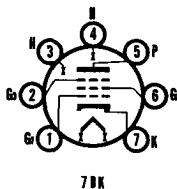
Grid 2 Current	25	2.3 Ma
Grid 1 Cutoff Voltage ⁽²⁾	—	-43 Volts

NOTES:

- (1) Applied for short interval (maximum of 2 seconds) so as not to damage tube.
- (2) For plate current of 100 μ a.
- (3) 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.

IF AMPLIFIER**6HR6****19HR6****Semi-Remote-Cutoff Pentode**

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

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

	19HR6	6HR6
Heater Voltage	18.9	6.3 Volts
Heater Current	150	450 Ma
Heater Warm-up Time	17	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.) 0.006 Pf

Grid No. 1 to Cathode, Grid No. 3 and

Internal Shield, Grid No. 2, and Heater 8.8 Pf

Plate to Cathode, Grid No. 3 and

Internal Shield, Grid No. 2, and Heater 5.2 Pf

RATINGS (Design Maximum Rating System)**Class A1 Amplifier**

Plate Supply Voltage (Max.) 300 Volts

Grid No. 3 (Suppressor-Grid) Connect to Cathode at Socket

Grid No. 2 (Screen-Grid) Supply Voltage (Max.) 300 Volts

Grid No. 2 Voltage See Rating Chart (Gen. Info. Sec.)

Grid No. 1 (Control-Grid) Voltage:

Positive Bias Value (Max.) 0 Volt

Negative Bias Value (Max.) 50 Volts

Plate Dissipation (Max.) 3 Watts

Grid No. 2 Input:

For Grid No. 2 Voltages up to 150 Volts (Max.) 1 Watt

For Grid No. 2 Voltages between 150 and

300 Volts See Rating Chart (Gen. Info. Sec.)

Maximum Circuit Values:

Grid No. 1 Circuit Resistance:

For Fixed Bias Operation (Max.) 0.5 Megohm

For Cathode Bias Operation (Max.) 1 Megohm

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier**

Plate Supply Voltage 200 Volts

Grid No. 3 Connected to Cathode at Socket

Grid No. 2 Supply Voltage 115 Volts

Grid No. 1 Supply Voltage 0 Volt

Cathode Resistor 68 Ohms

Plate Resistance (Approx.) 0.5 Megohm

Transconductance 8500 μ mhos

Plate Current 13.2 Ma

Grid No. 2 Current 4.3 Ma

Grid No. 1 Voltage (Approx.) for Transconductance = 60 μ mhos -15 Volts

