

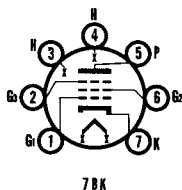
IF AMPLIFIER

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 μmhos
Plate Current	13.2 Ma
Grid No. 2 Current	4.3 Ma
Grid No. 1 Voltage (Approx.) for Transconductance = 60 μmhos	-15 Volts