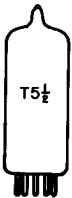
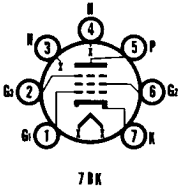


18GD6A

RF/IF AMPLIFIER

Sharp 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

Heater Voltage.....	18 Volts
Heater Current	100 Ma
Heater Warm-up Time	20 Seconds
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	
Total DC and Peak.....	100 Volts
Heater Positive with Respect to Cathode	
Total DC and Peak.....	100 Volts

DIRECT INTERELECTRODE CAPACITANCES (Shielded)⁽¹⁾

Grid No. 1 to Plate (Max.)	0.0035 Pf
Input: g1 to (h + k + g2 + g3 + IS).....	6.0 Pf
Output: p to (h + k + g2 + g3 + IS).....	5.0 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.)	150 Volts
Grid No. 2 Supply Voltage (Max.)	150 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)
Plate Dissipation (Max.)	2.5 Watts
Grid No. 2 Dissipation (Max.)	0.6 Watts

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	100 Volts
Grid No. 3 Voltage	Connected to Cathode at Socket
Grid No. 2 Voltage	100 Volts
Cathode Bias Resistor	150 Ohms
Plate Current	5 Ma
Grid No. 2 Current	2.0 Ma
Transconductance	4300 μmhos
Plate Resistance (Approx.)	0.5 Megohm
Ec1 for Ib = 10 μa (Approx.).....	-4.7 Volts

NOTE:

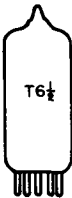
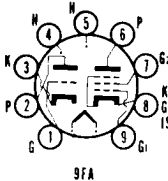
(1) External Shield No. 316 connected to Pin No. 7 (cathode).

19HV8

IF AMPLIFIER (P)
AF AMPLIFIER (T)

High Mu Triode and
Sharp Cutoff Pentode

Construction Miniature T-6½
Base Button 9 Pin, E9-1
Basing 9FA
Outline 6-2
Maximum Diameter 0.875 In.
Maximum Seated Height 1.937 In.
Maximum Overall Height 2.187 In.



ELECTRICAL DATA
HEATER OPERATION

Heater Voltage.....	18.9 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
Pentode Section		
Grid No. 1 to Plate	—	0.016 Pf
Input: Pg1 to (h + Pk + Pg2 + Pg3 + IS)	5.5	5.5 Pf
Output: Pp to (h + Pk + Pg2 + Pg3 + IS)	3.4	2.4 Pf
Heater to Cathode	2.8 ⁽²⁾	2.8 Pf
Triode Section		
Grid to Plate	0.9	0.9 Pf
Input: Tg to (Tk + h + Pk + Pg3 + IS)	1.9	1.7 Pf
Output: Tp to (Tk + h + Pk + Pg3 + IS)	2.6	1.7 Pf
Heater to Cathode	2.8 ⁽²⁾	2.8 Pf

RATINGS (Design Maximum Rating System)

	Pentode Section	Triode Section
Plate Voltage	330	330 Volts
Screen Supply Voltage	330	— Volts
Screen Voltage	See Rating Chart (Gen. Info. Sec.)	
Positive DC Grid No. 1 Voltage	0	0 Volt
Plate Dissipation	3.0	0.55 Watts
Screen Dissipation	0.55	— Watt
Grid No. 1 Circuit Resistance		
Fixed Bias	0.25	0.5 Megohm
Cathode Bias	1.0	1.0 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

	Pentode Section	Triode Section
Plate Voltage	125	100 Volts
Screen Voltage	125	— Volts
Grid No. 1 Voltage	-1.0	-1.0 Volt
Amplification Factor	—	70
Plate Resistance (Approx.)	200,000	54,000 Ohms
Transconductance	6500	1300 μ mhos
Plate Current	12	0.8 Ma
Screen Current	4.0	— Ma
Grid No. 1 Voltage (Approx.) Ib = 50 μ a	—	-1.5 Volts
Grid No. 1 Voltage (Approx.) Ib = 20 μ a	-9	— Volts

NOTES:

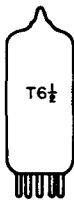
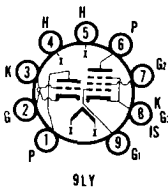
- (1) With external shield (EIA 315) connected to cathode of section under test unless otherwise indicated.
- (2) With external shield (EIA 315) connected to ground.

OSCILLATOR and MIXER

19KG8

Medium Mu Triode and Sharp Cutoff Pentode

Construction	Miniature T-6½
Base	Buttong 9 Pin, E9-1
Basing	9LY
Outline	6-2
Maximum Diameter	0.875 In.
Maximum Seated Height	1.937 In.
Maximum Overall Height	2.187 In.



ELECTRICAL DATA
HEATER OPERATION

Heater Voltage	18.9 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