

CHARACTERISTICS AND TYPICAL OPERATION

Pentode Section

Plate Voltage	35	200 Volts
Screen Voltage	100	100 Volts
Grid No. 1 Voltage	0	— Volts
Cathode Bias Resistor	—	82 Ohms
Plate Resistance (Approx.)	—	70,000 Ohms
Transconductance	—	19,000 μ mhos
Plate Current	40	16 Ma
Screen Current	13	3.0 Ma
Grid No. 1 Voltage (Approx.) $I_b = 100 \mu a$	—	-5.5 Volts

Triode (Section 1)

Plate Voltage	200 Volts
Cathode Bias Resistor	270 Ohms
Amplification Factor	69
Plate Resistance (Approx.)	12,500 Ohms
Transconductance	5500 μ mhos
Plate Current	7.1 Ma
Grid Voltage (Approx.) $I_b = 50 \mu a$	-5.5 Volts

Triode (Section 2)

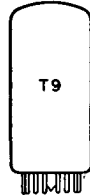
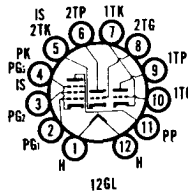
Plate Voltage	200 Volts
Cathode-Bias Resistor	470 Ohms
Amplification Factor	40
Plate Resistance (Approx.)	7600 Ohms
Transconductance	5300 μ mhos
Plate Current	7.2 Ma
Grid Voltage (Approx.) $I_b = 100 \mu a$	-8 Volts

**VIDEO AMPLIFIER (P)
GENERAL PURPOSE AMPLIFIER (T)
SYNC SEPARATOR (T)**

14BR11

**High Mu Triode, Medium Mu Triode
and Sharp Cutoff Pentode**

Construction	Compactron T-9
Base	Button 12 Pin, E12-70
Basing	.12GL
Outline	9-59
Maximum Diameter	1.188 In.
Maximum Seated Height	2.250 In.
Maximum Overall Height	2.625 In.



ELECTRICAL DATA

HEATER OPERATION

Heater Voltage	14.2 Volts
Heater Current	450 Ma
Heater Warm-up Time	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)

Triode (Section 1)

Grid to Plate	1.9 Pf
Input: 1Tg to (1Tk + 2Tk + Pk + Pg3 + h + IS)	2.4 Pf
Output: 1Tp to (1Tk + 2Tk + Pk + Pg3 + h + IS)	2.2 Pf

Triode (Section 2)

Grid to Plate	3.8 Pf
Input: 2Tg to (2Tk + Pk + Pg3 + h + IS)	2.8 Pf
Output: 2Tp to (2Tk + Pk + Pg3 + h + IS)	3.8 Pf

Pentode Section

Grid No. 1 to Plate	0.13 Pf
Input: Pg1 to (2Tk + Pk + Pg2 + Pg3 + h + IS)	10 Pf
Output: Pp to (2Tk + Pk + Pg2 + Pg3 + h + IS)	4.6 Pf

Coupling

Pentode Plate to Triode Plate (Section 2) (Max.)	0.16 Pf
Triode Plate (Section 1) to Triode Plate (Section 2)	0.2 Pf