RATINGS (Design Maximum Rating System)

	Triode Section	Pentode Section
Plate Voltage (Max.)	330	330 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)	
Grid No. 2 Supply Voltage (Max.)	330	330 Volts
Positive Grid Voltage (Max.)	0	0 Volt
Plate Dissipation (Max.)	2.5	3.0 Volts
Grid No. 2 Dissipation (Max.)	—	0.55 Watt

CHARACTERISTICS AND TYPICAL OPERATION

	Triode Section	Pentode Section
Class A1 Amplifier		
Plate Voltage	125	125 Volts
Grid No. 2 Voltage	—	110 Volts
Grid No. 1 Voltage	-1.0	-1.0 Volts
Plate Current	13.5	9.5 Ma
Grid No. 2 Current	—	3.5 Ma
Transconductance	7500	5000 μmhos
Amplification Factor	40	—
Plate Resistance (Approx.)	—	200,000 Ohms
Zero Bias Transconductance (with Eb = 100 V, Ec2 = 70 V)	—	6000 μmhos

NOTE:
(1) With external EIA No. 315 shield connected to cathode of section under test.

Color Television Type

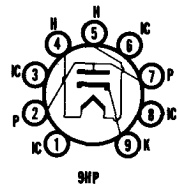
DAMPER

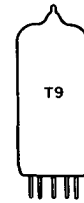
6BS3

12BS3, 17BS3

Heater-Cathode Diode

Construction ..... Novar T-9
Base ..... Button 9 Pin, E9-75
Basing(1) 9HP
Outline 9-86
Maximum Diameter ..... 1.188 In.
Maximum Seated Height ..... 3.030 In.
Maximum Overall Height ..... 3.410 In.





ELECTRICAL DATA

HEATER OPERATION

	17BS3	12BS3	6BS3
Heater Voltage	16.8	12.6	6.3 Volts
Heater Current	450	600	1200 Ma
Heater Warm-up Time	11	11	— Seconds
Maximum Heater-Cathode Voltage			
Heater Negative with Respect to Cathode			
DC			900 Volts
Total DC and Peak			5000 Volts
Heater Positive with Respect to Cathode			
DC			100 Volts
Total DC and Peak			300 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Heater to Cathode	2.8 Pf
Plate to Cathode and Heater	6.5 Pf
Cathode to Plate and Heater	9.0 Pf

RATINGS (Design Maximum Rating System)
Damper Service

Peak Inverse Plate Voltage (Max.)(2)	5000 Volts
Plate Dissipation (Max.)	6.0 Watts
Steady State Peak Current (Max.)	1100 Ma
DC Plate Current (Max.)	200 Ma

CHARACTERISTICS AND TYPICAL OPERATION

Tube Voltage Drop for Ib = 140 Ma	12 Volts

NOTES:
(1) Pins 1, 3, 6, and 8 should not be used as tie points.
(2) 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.*