

MECHANICAL DATA

Bulb	T-9
Base	B8-6, Intermediate Shell Octal 8-Pin or B8-58, Short Intermediate Shell Octal 8-Pin
Outline	9-11 or 9-41
Basing	8BD
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA¹

HEATER CHARACTERISTICS

	6SN7GT	12SN7GT
Heater Voltage	6.3	12.6 Volts
Heater Current	600	300 Ma
Heater-Cathode Voltage (Design Center Values)		
Heater Negative with Respect to Cathode Total DC and Peak	200	200 Volts Max.
Heater Positive with Respect to Cathode DC	100	100 Volts Max.
Total DC and Peak	200	200 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded — approx.)

	Section 1 ²	Section 2
Grid to Plate	3.8	4.0 $\mu\mu\text{f}$
Input	2.8	3.0 $\mu\mu\text{f}$
Output	0.8	1.2 $\mu\mu\text{f}$

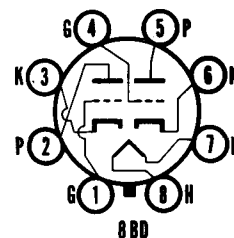
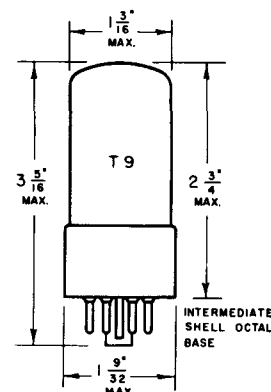
RATINGS — Each Section (Design Center Values — Except as Noted)

	Class A ₁ Amplifier	Vertical ³ Deflection Amplifier
Plate Voltage	300	300 Volts Max.
Peak Positive Plate Voltage (Abs. Max.)		1200 Volts Max.
Plate Dissipation		
Each Plate	3.5	3.5 Watts Max.
Both Plates	5.0	5.0 Watts Max.
Peak Negative Grid Voltage		250 Volts Max.
Cathode Current	20	20 Ma Max.
Peak Cathode Current		70 Ma Max.
Grid Circuit Resistance	1.0	Megohm Max.
Cathode Bias		2.2 Megohms Max.

	Vertical ³ Deflection Oscillator	Horizontal ³ Deflection Oscillator
Plate Voltage	300	300 Volts Max.
Plate Dissipation		
Each Plate	3.5	3.5 Watts Max.
Both Plates	5.0	5.0 Watts Max.
Peak Negative Grid Voltage	400	600 Volts Max.
Average Cathode Current	20	20 Ma Max.
Peak Cathode Current	70	300 Ma Max.
Grid Circuit Resistance	2.2	2.2 Megohms Max.

QUICK REFERENCE DATA

The 6SN7GT is a medium μ double triode intended for use as a resistance coupled amplifier, or combined vertical oscillator and vertical deflection amplifier in television receivers. Except for heater characteristics, the 6SN7GT is identical to the 12SN7GT.



SYLVANIA ELECTRIC
PRODUCTS INC.

RADIO TUBE DIVISION
EMPORIUM, PA.

Prepared and Released By The
TECHNICAL PUBLICATIONS SECTION
EMPORIUM, PENNSYLVANIA

SEPTEMBER 1955

PAGE 1 OF 5

CHARACTERISTICS AND TYPICAL OPERATION

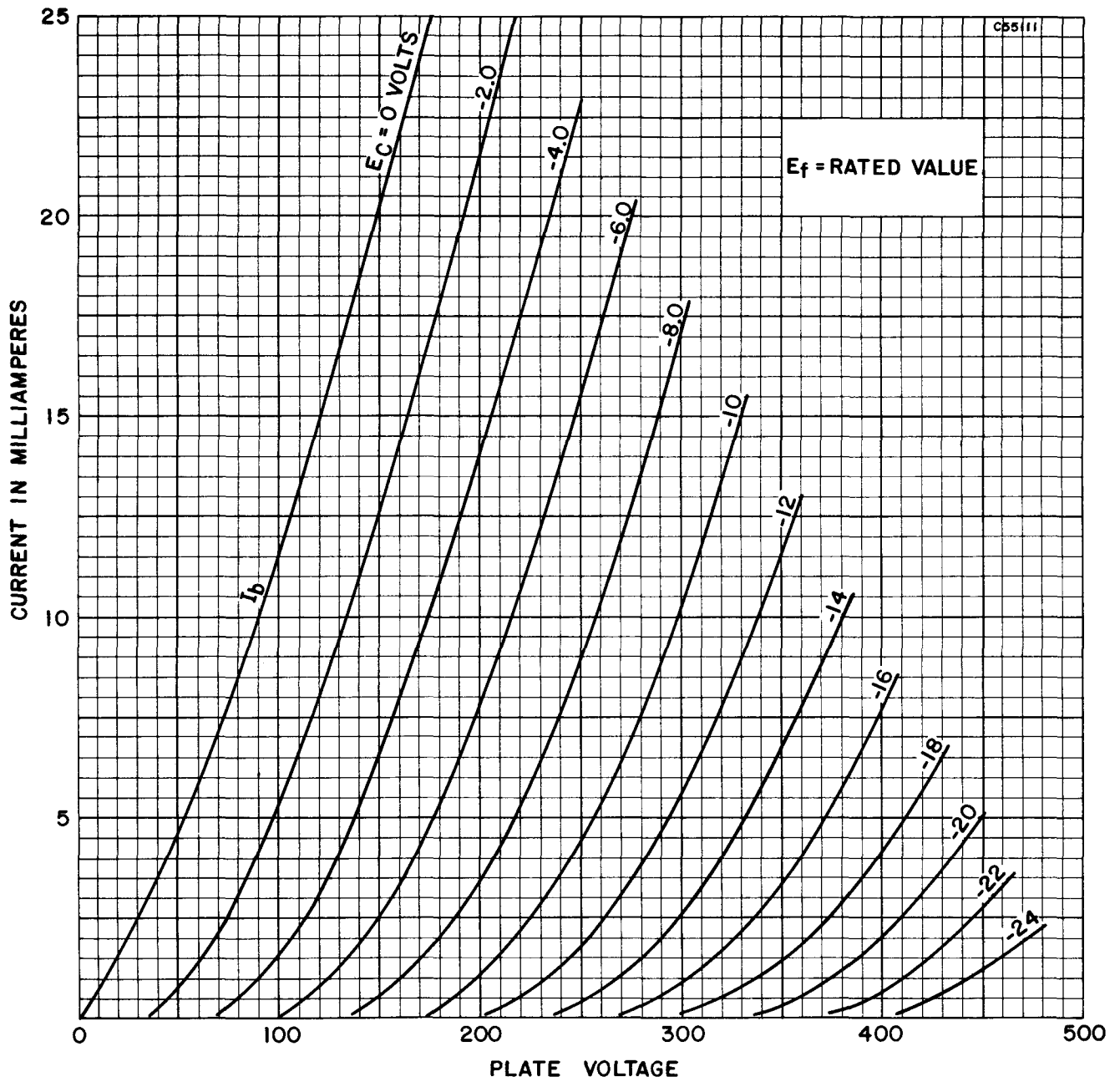
Class A₁ Amplifier

Plate Voltage	90	250 Volts
Grid Voltage	0	-8.0 Volts
Plate Current	10	9.0 Ma
Plate Resistance (approx.)	6700	7700 Ohms
Transconductance	3000	2600 μ mhos
Amplification Factor	20	20
Plate Current at E _c = -12.5 Volts		1.3 Ma
Grid Voltage for I _b = 10 μ a (approx.)	-7.0	-18 Volts

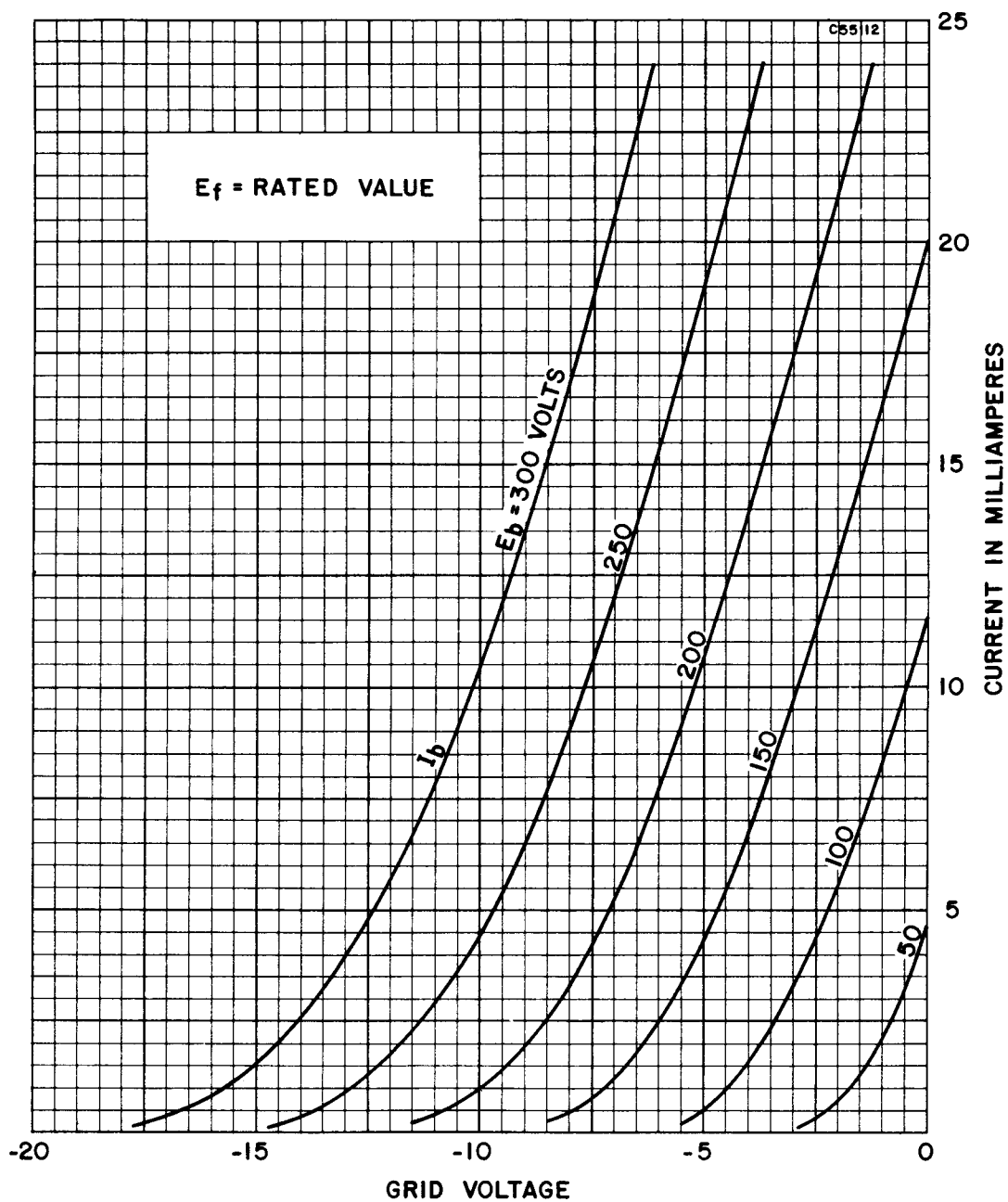
NOTES:

1. All ratings, operating conditions and characteristics are for each section except where otherwise stated.
2. Section No. 1 connects to pins 4, 5 and 6. Section No. 2 connects to pins 1, 2 and 3.
3. For operation in a 525 line, 30-frame system as described in "Standards of Good Engineering Practice for Television Broadcasting Stations; Federal Communications Commission". The duty cycle of the voltage pulse must not exceed 15% of one scanning cycle.

AVERAGE PLATE CHARACTERISTICS
 EACH SECTION



AVERAGE TRANSFER CHARACTERISTICS
EACH SECTION



AVERAGE TRANSFER CHARACTERISTICS
EACH SECTION

