

MECHANICAL DATA

Bulb	T-9
Base	Intermediate Shell Octal
Basing	6AM
Top Cap	Skirted Miniature
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage	6.3 Volts
Heater Current	1.2 Amperes
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 (Approximate)

Grid to Plate	0.6 $\mu\mu\text{f}$
Input	15 $\mu\mu\text{f}$
Output	7.5 $\mu\mu\text{f}$

RATINGS (Design Center Values — Except as Noted)

Horizontal Deflection Amplifier¹

DC Plate Supply Voltage	
(Boost + DC Power Supply)	550 Volts Max.
Peak Positive Plate Voltage (Abs. Max.)	5500 Volts
Peak Negative Plate Voltage	1250 Volts Max.
Plate Dissipation ²	11 Watts Max.
Peak Negative Grid #1 Voltage	300 Volts Max.
DC Grid #2 Voltage	175 Volts Max.
Grid #2 Dissipation	2.5 Watts Max.
Average Cathode Current	110 Ma Max.
Peak Cathode Current	400 Ma Max.
Grid #1 Circuit Resistance	0.47 Megohm Max.
Bulb Temperature (At Hottest Point)	220° C Max.

AVERAGE CHARACTERISTICS

Pentode Operation: With $E_b=250$ V, $E_{c2}=150$ V and $E_{c1}=-22.5$ V

Plate Current	55 Ma
Grid #2 Current	2.1 Ma
Transconductance	5500 μmhos
Plate Resistance	20,000 Ohms

Zero Bias: With $E_b=60$ V and $E_{c2}=150$ V (Instantaneous Values)

Plate Current	225 Ma
Grid #2 Current	25 Ma

Cutoff: For $I_b=1$ ma with $E_b=250$ V and $E_{c2}=150$ V

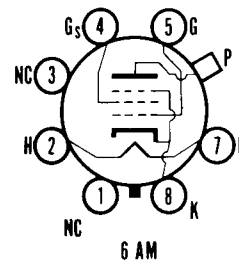
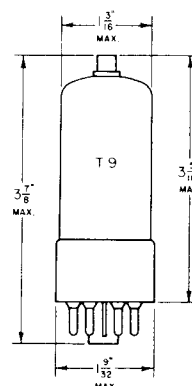
Grid #1 Voltage (approx.)	-46 Volts
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Triode Amplification Factor: With

$E_b=E_{c2}=150$ V and $E_{c1}=-22.5$ V	4.3
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QUICK REFERENCE DATA

The Sylvania Type 6BQ6GT is a beam power amplifier designed for use as a driver tube in horizontal deflection amplifiers. It is identical to the type 6BQ6G except for bulb size.



SYLVANIA ELECTRIC
PRODUCTS INC.
RADIO TUBE DIVISION

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SYLVANIA

6BQ6GT

TYPICAL OPERATION

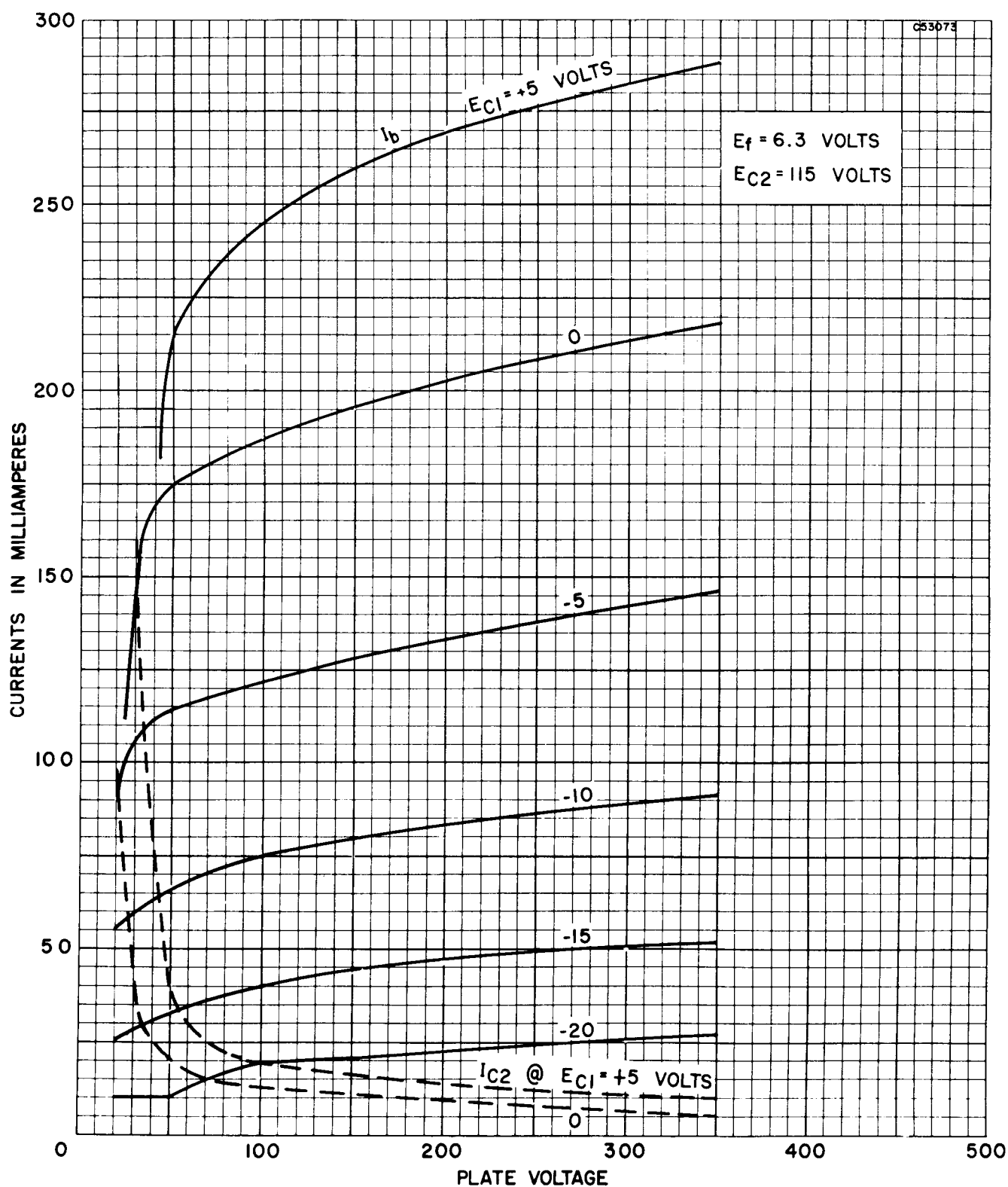
Horizontal Deflection Amplifier, 70° Picture Tube

Plate Supply Voltage	310 Volts
Average Plate Voltage (Boost + Supply)	540 Volts
Peak Positive Plate Voltage	
DC Component + Pulse	4600 Volts
Average Plate Current	79 Ma
Peak Plate Current	270 Ma
Plate Dissipation	7.0 Watts
Grid No. 2 Voltage	140 Volts
Grid No. 2 Current	11.2 Ma
Grid No. 2 Dissipation	1.57 Watts
Grid No. 1 Input Voltage	
Peak to Peak	130 Volts
Sawtooth Component	65 Volts
Anode Voltage (Picture Tube)	15.7 Kv
Anode Current (Picture Tube)	100 μ a

NOTES:

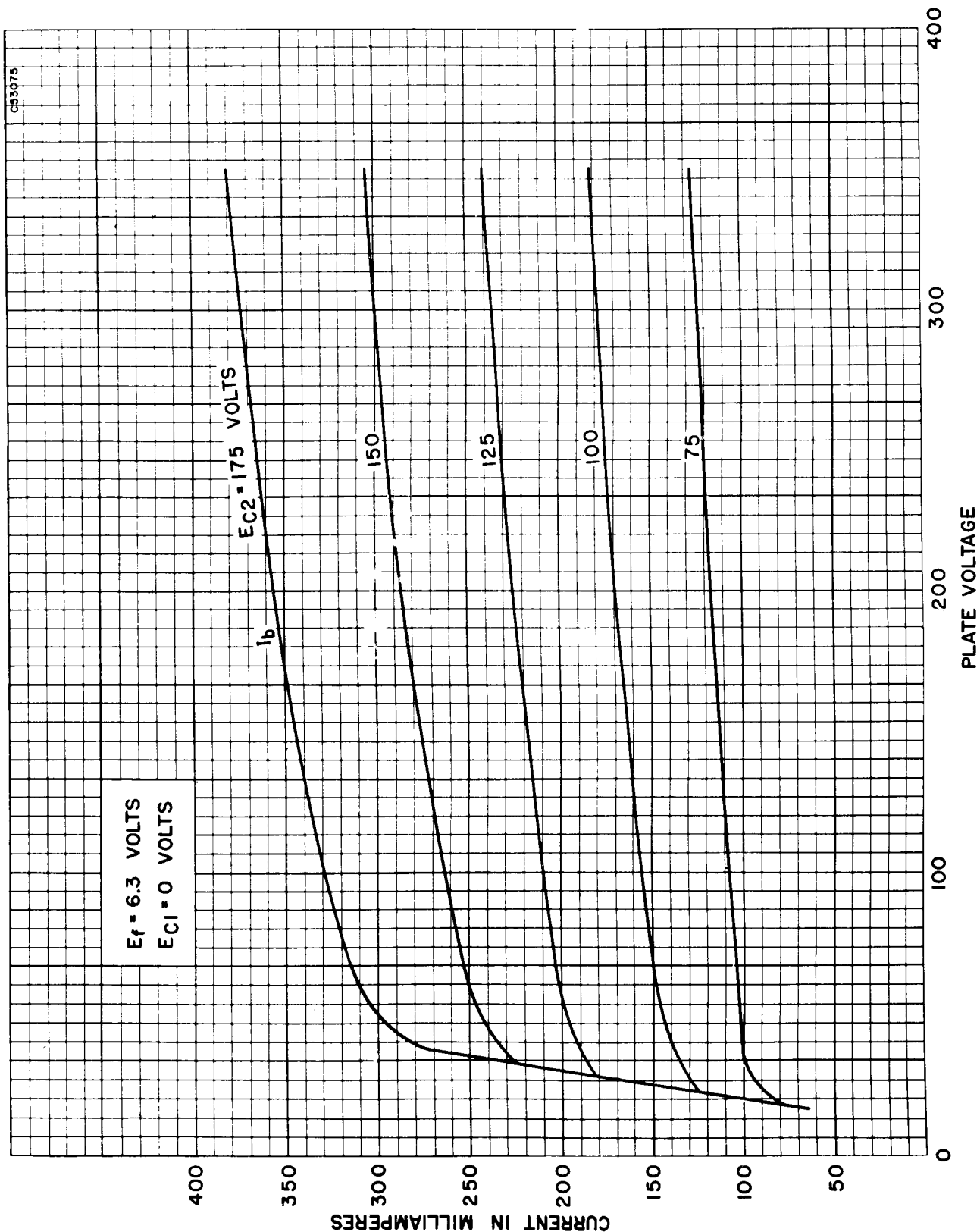
1. For operation in a 525-line, 30-frame system as described in "Standards of Good Engineering Practice for Television Broadcasting Stations; Federal Communications Commission". The duty cycle of the voltage pulse not to exceed 15% of a scanning cycle.
2. In stages operating with grid leak bias, an adequate cathode bias resistor or other suitable means is required to protect the tube in the absence of excitation.

AVERAGE PLATE CHARACTERISTICS



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