

DESCRIPTION AND RATING

The 35L6-GT is a beam pentode primarily designed for use in the audio frequency power output stage of radio receivers. Features include high power sensitivity and high efficiency at relatively low plate and screen voltages.

GENERAL

ELECTRICAL

Cathode—Coated Unipotential

Heater Voltage, AC or DC 35.0 Volts

Heater Current 0.15 Amperes

MECHANICAL

Mounting Position—Any

Envelope—T-9, Glass

Base—B6-81 or B7-7, Intermediate-Shell Octal 6- or 7-Pin
or B6-84 or B7-47, Short Intermediate-Shell Octal 6- or 7-Pin

MAXIMUM RATINGS

DESIGN-CENTER VALUES

Plate Voltage 200 Volts

Screen Voltage 125 Volts

Plate Dissipation 8.5 Watts

Screen Dissipation 1.0 Watts

Heater-Cathode Voltage

Heater Positive with Respect to Cathode 90 Volts

Heater Negative with Respect to Cathode 90 Volts

Grid-Number 1 Circuit Resistance

With Fixed Bias 0.1 Megohms

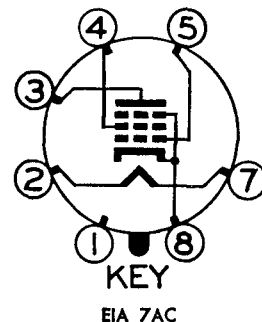
With Cathode Bias 0.5 Megohms

CHARACTERISTICS AND TYPICAL OPERATION

CLASS A₁ AMPLIFIER

Plate Voltage	110	200	Volts
Screen Voltage	110	125	Volts
Grid-Number 1 Voltage	-7.5		Volts
Cathode-Bias Resistor		180	Ohms
Peak AF Grid-Number 1 Voltage	7.5	8.0	Volts
Plate Resistance, approximate	14000	34000	Ohms
Transconductance	5800	6100	Micromhos
Zero-Signal Plate Current	40	43	Milliamperes
Maximum-Signal Plate Current	41	43	Milliamperes
Zero-Signal Screen Current	3.0	2.0	Milliamperes
Maximum-Signal Screen Current	7.0	5.5	Milliamperes
Load Resistance	2500	5000	Ohms
Total Harmonic Distortion, approximate	10	10	Percent
Maximum-Signal Power Output	1.5	3.0	Watts

BASING DIAGRAM



TERMINAL CONNECTIONS

Pin 1—No Connection

Pin 2—Heater

Pin 3—Plate

Pin 4—Grid Number 2
(Screen)

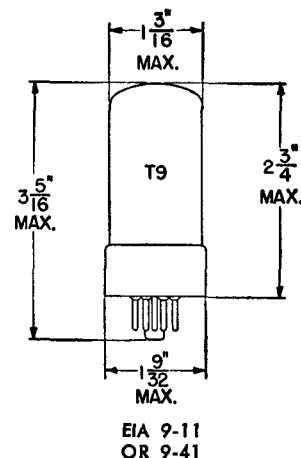
Pin 5—Grid Number 1

Pin 7—Heater

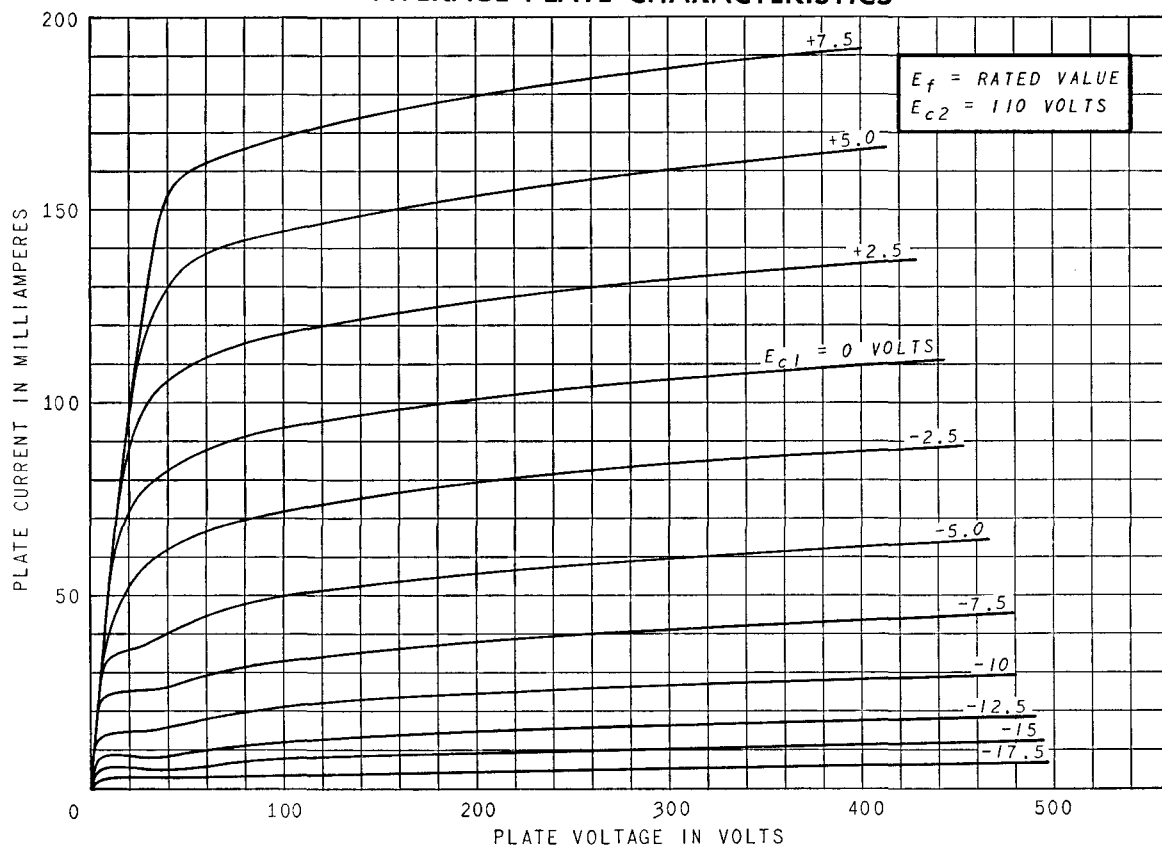
Pin 8—Cathode and Beam
Plates

Note: Pin 1 omitted on bases
B6-81 and B6-84

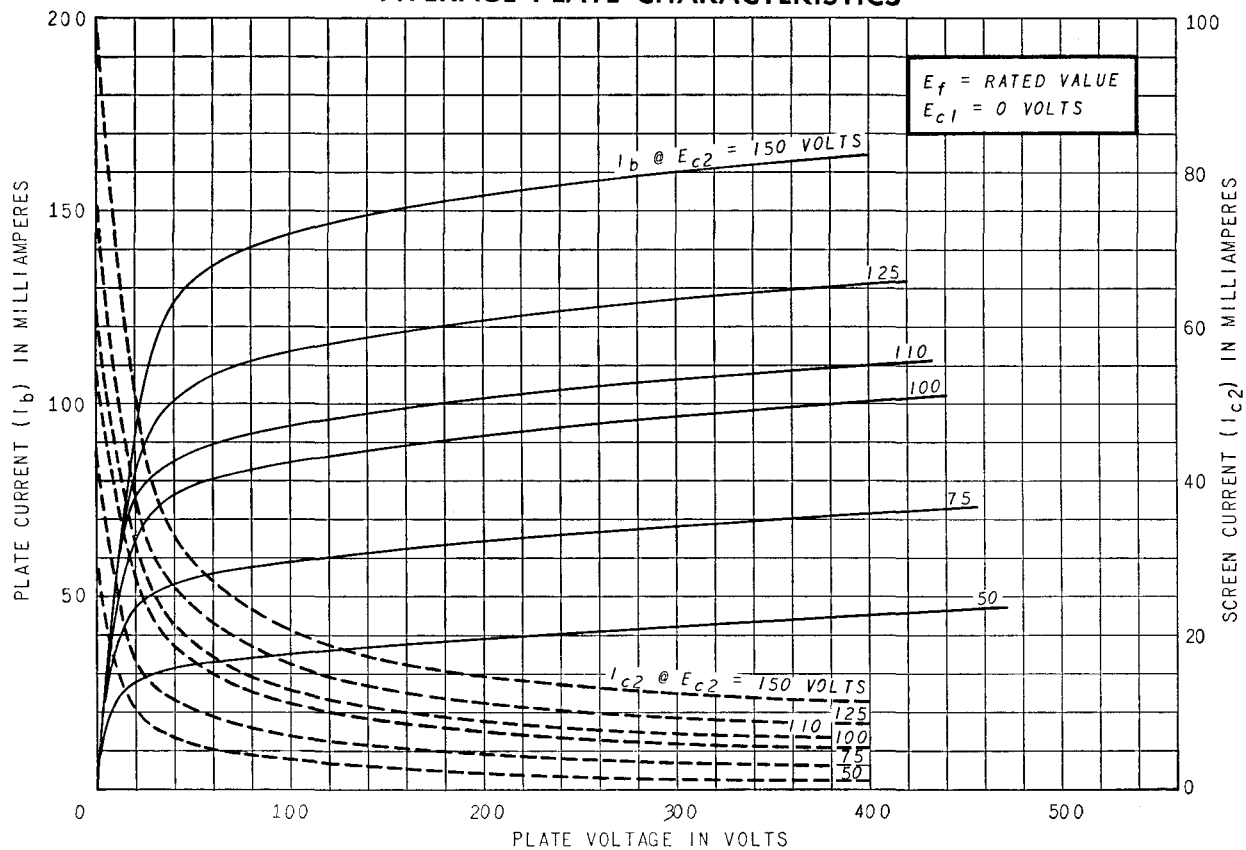
PHYSICAL DIMENSIONS



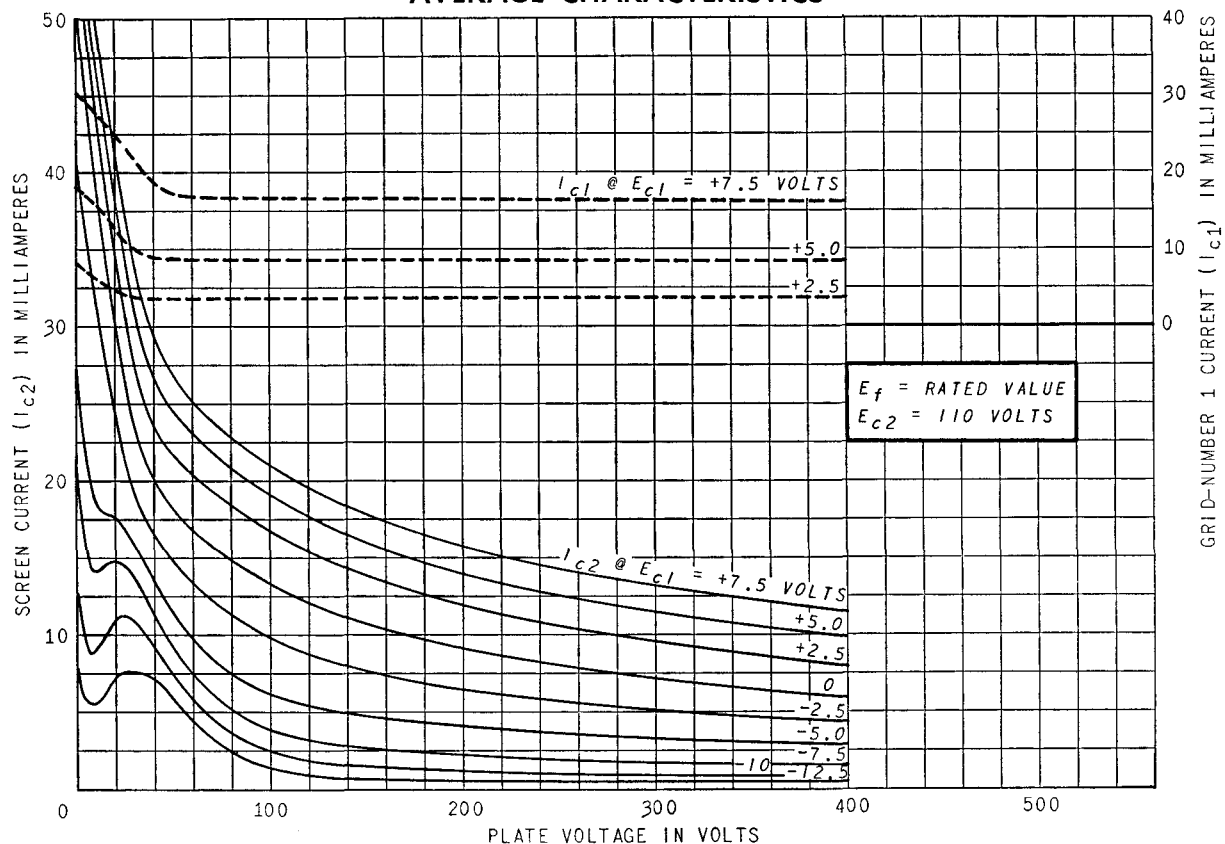
AVERAGE PLATE CHARACTERISTICS



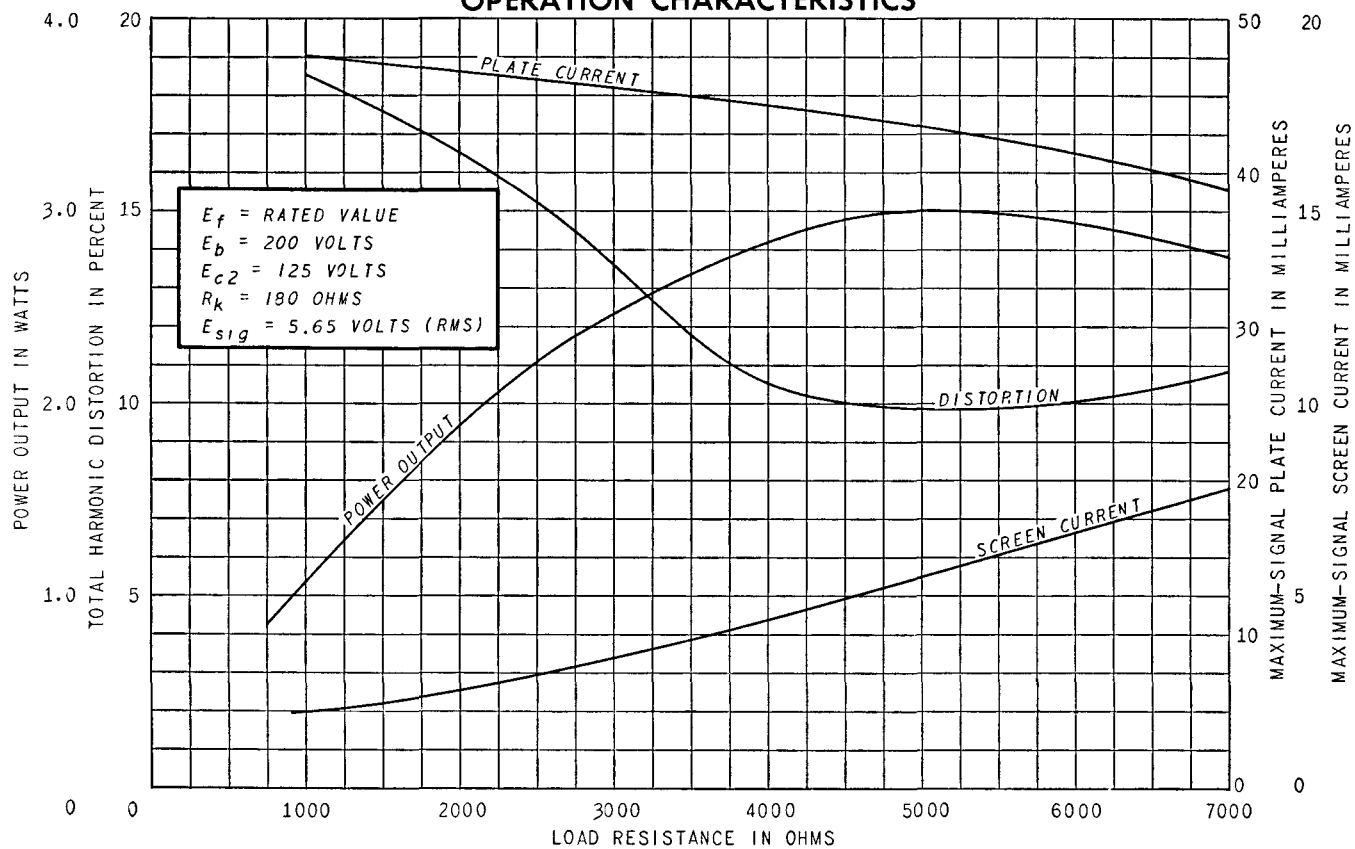
AVERAGE PLATE CHARACTERISTICS



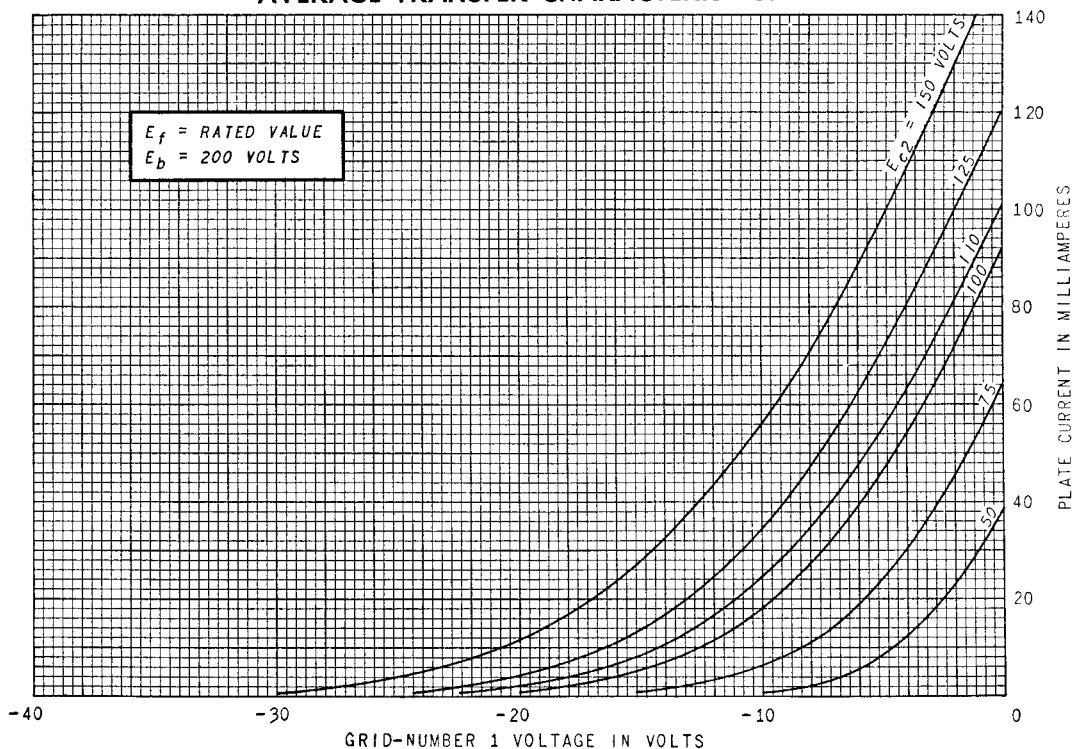
AVERAGE CHARACTERISTICS



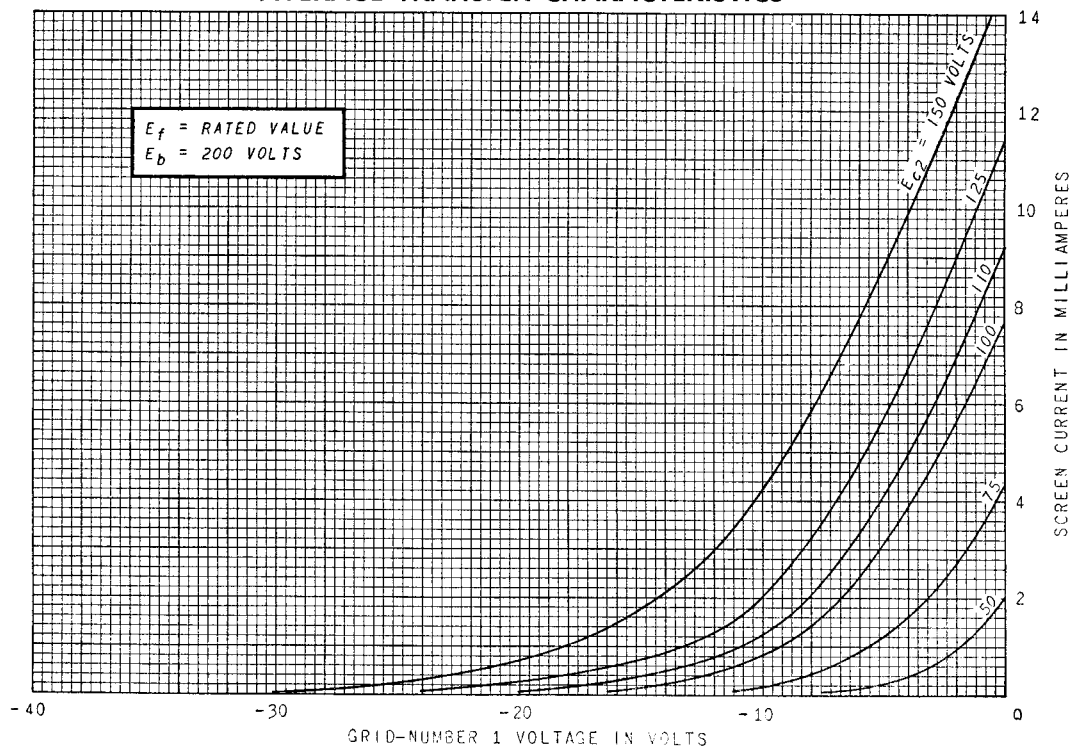
OPERATION CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



ELECTRONIC COMPONENTS DIVISION

GENERAL  ELECTRIC

Schenectady 5, N. Y.