ADVANCE DATA

MECHANICAL DATA

Bulb	T-5½
Base	E7-1, Miniature Button 7-Pin
Outline	5-2
Basing	7CM
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Operation	4JL6 Series	5JL6 Series	6JL6 Parallel	
Heater Voltage	3.7	4.9	6.3	Volts
Heater Current	600	450	350	Ma
Heater Warm-up Time	11	11	-	Seconds

Heater-Cathode Voltage (Design Maximum Values)

Heater Negative with Respect to Cathode		
Total DC and Peak	200 Volts	Max.
Heater Positive with Respect to Cathode		
DC	100 Volts	Max.
Total DC and Peak	200 Volts	Max.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate	.02 pf	Max.
Input: g1 to (h + k + g2 + g3 + IS)	9.3 pf	
Output: p to (h + k + g2 + g3 + IS)	2.7 pf	

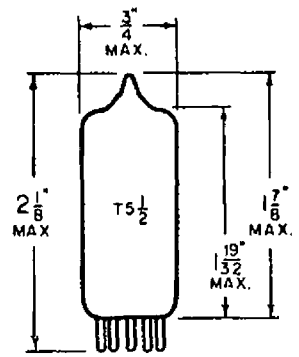
RATINGS (Design Maximum Values)

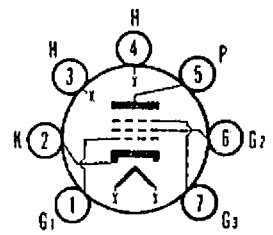
Plate Voltage	275 Volts	Max.
Grid No. 2 Supply Voltage	275 Volts	Max.
Grid No. 2 Voltage	See Rating Chart	
Plate Dissipation	2.5 Watts	Max.
Grid No. 2 Dissipation	0.6 Watt	Max.
Cathode Current	22 Ma	Max.
Grid No. 1 Circuit Resistance (Self Bias)	0.5 Megohms	Max.

QUICK REFERENCE DATA

The 6JL6, 5JL6, and 4JL6 are 7-pin miniature, semi-remote cutoff pentodes, featuring frame grid construction, very high Gm, and automated manufacturing techniques which insure exceptional product uniformity. They are designed for AGC controlled IF amplifier applications in TV receivers.

The 5JL6 and 4JL6 have controlled heater warm-up time for series string operation.





7CM

SYLVANIA
ELECTRONIC TUBES
A Division of
Sylvania Electric Products Inc.
RECEIVING TUBE
OPERATIONS
EMPORIUM, PA.

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146 (10-58)

from JEDEC release #4196, March 25, 1963

AVERAGE CHARACTERISTICS

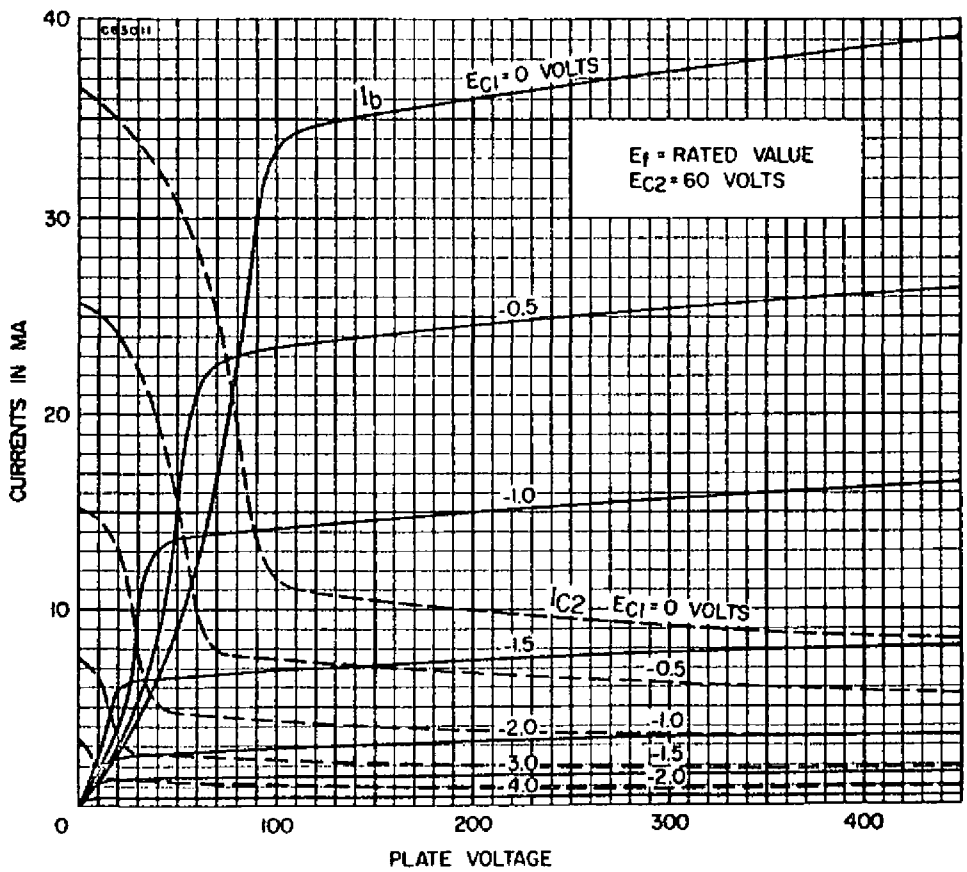
Class A_1 Amplifier

Plate Voltage	125 Volts
Grid No. 2 Voltage	60 Volts
Grid No. 3 Voltage	Connected to Cathode at Socket
Cathode Bias Resistor	68 Ohms
Plate Current	12.5 Ma
Grid No. 2 Current	4.0 Ma
Transconductance	15,500 µmhos
Plate Resistance (Approx.)	120,000 Ohms
Ecl for gm = 1500 µmhos (Approx.)	-2.7 Volts
Ecl for gm = 150 µmhos (Approx.)	-5.5 Volts

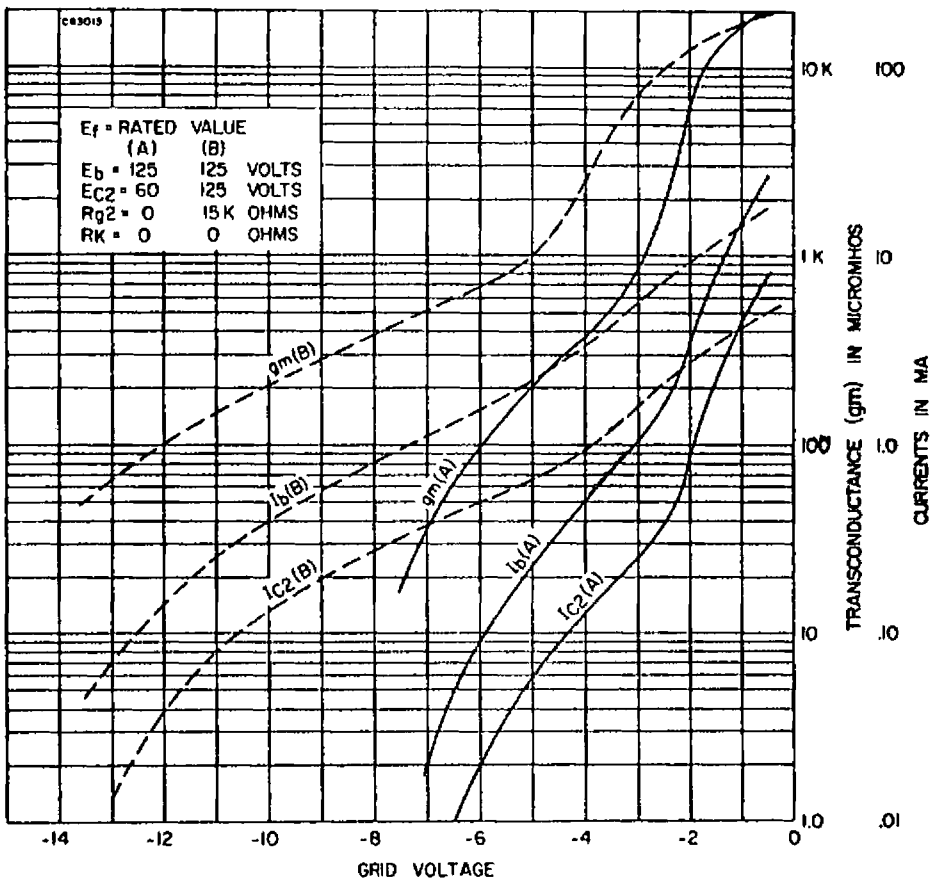
NOTES:

1. Optimized unbypassed cathode resistor for gain controlled IF service is 33 Ohms.

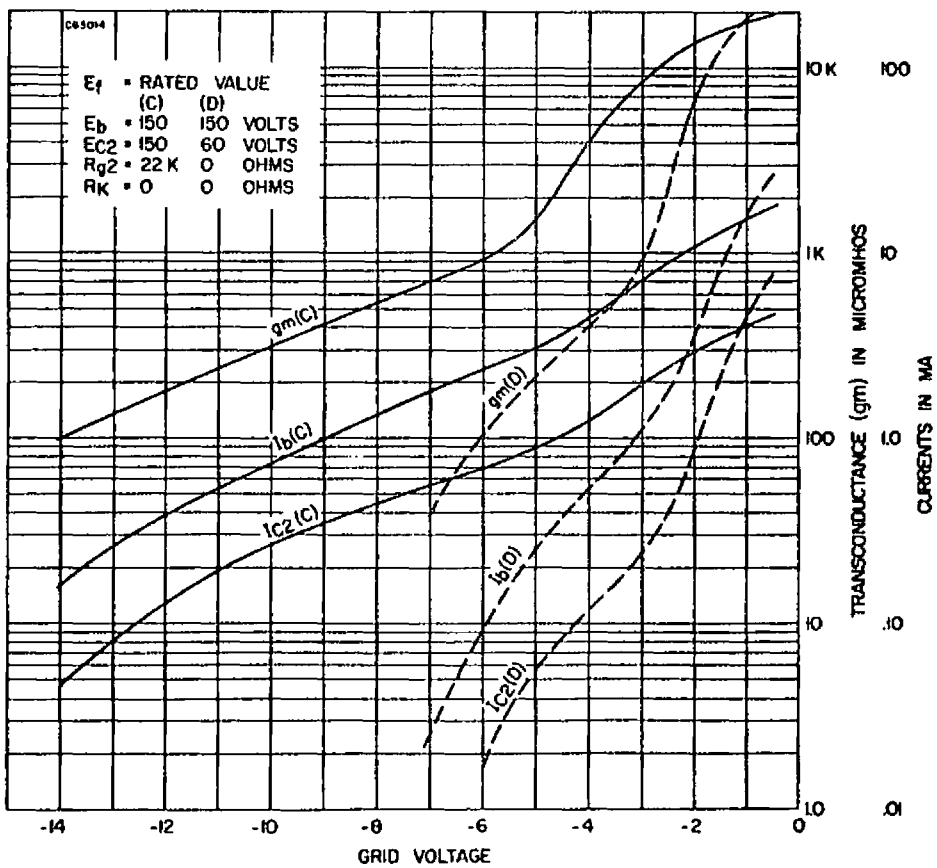
AVERAGE PLATE CHARACTERISTICS



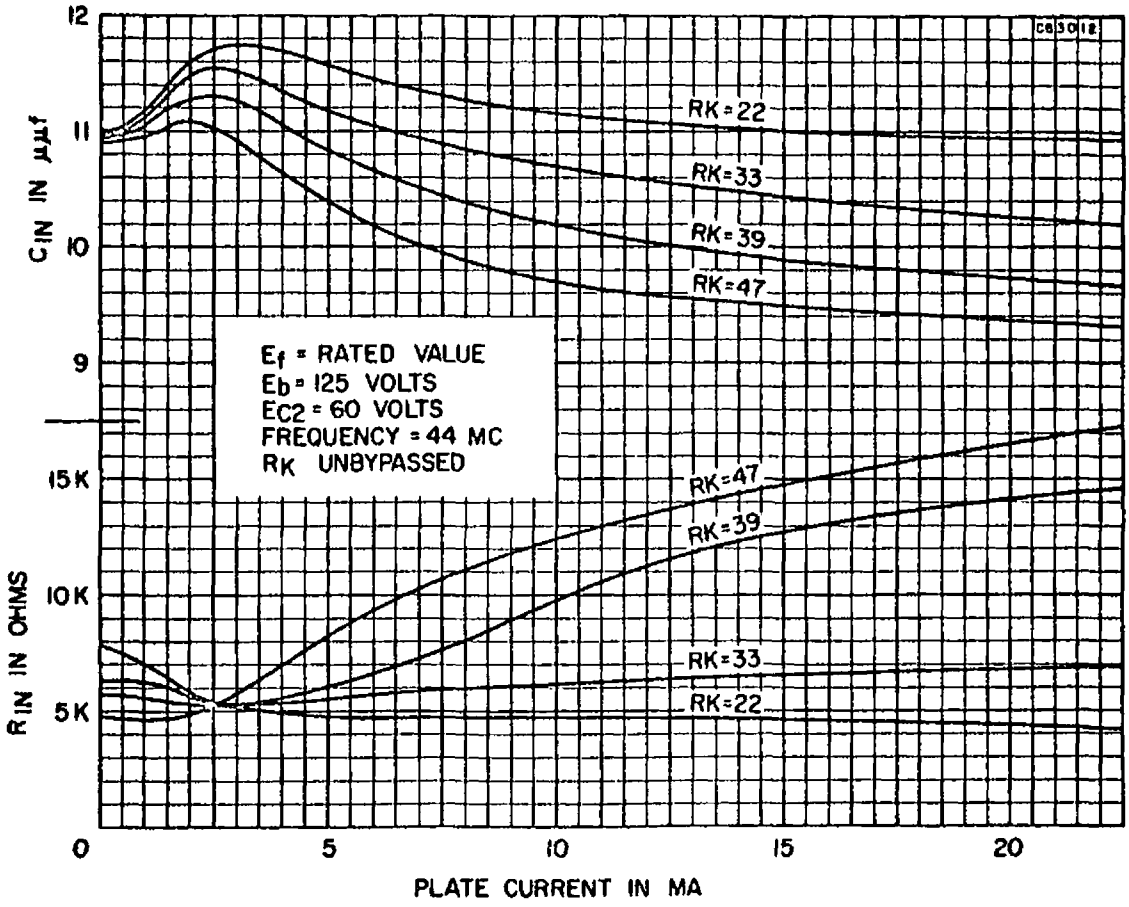
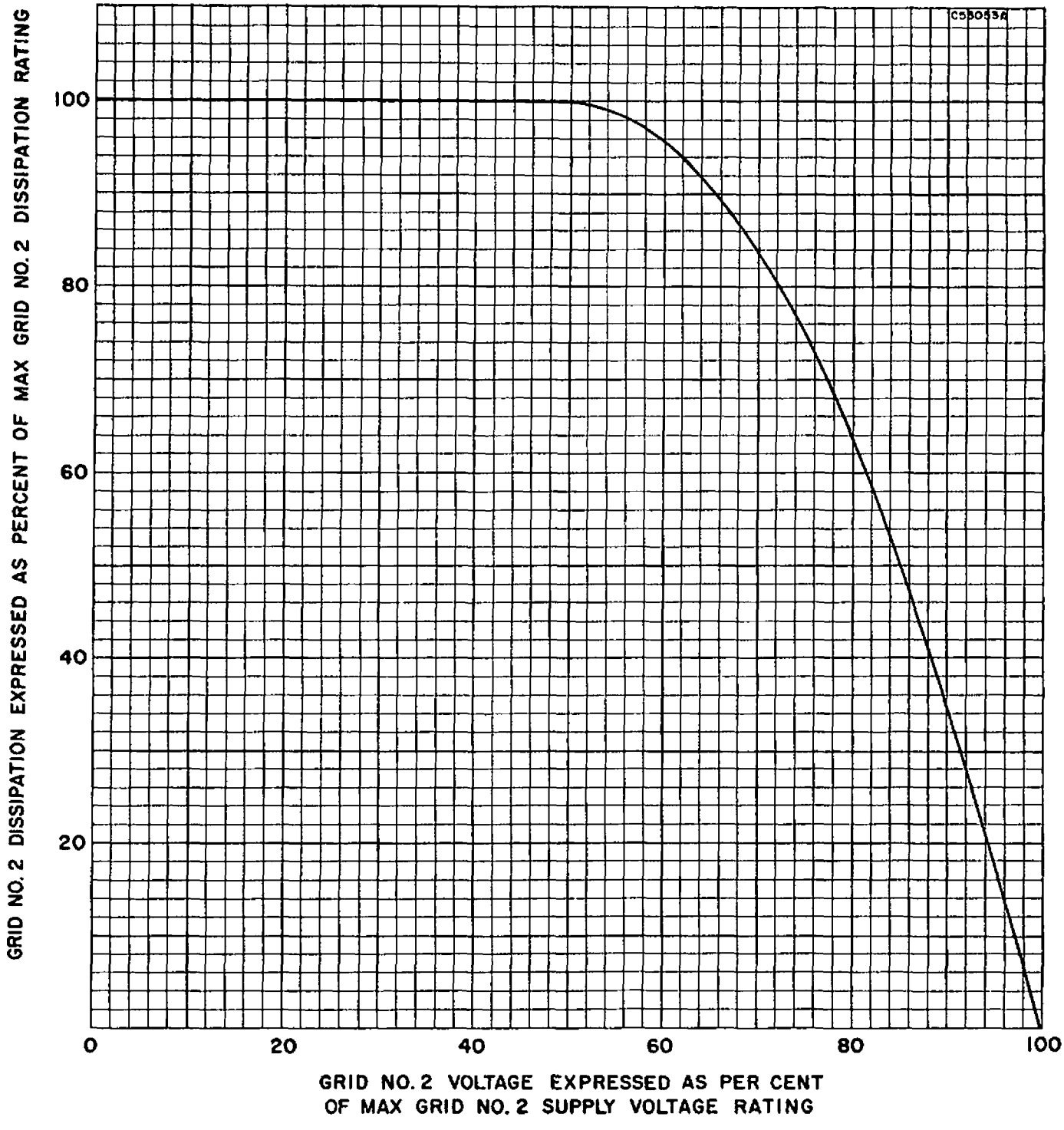
AVERAGE TRANSFER CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE INPUT RESISTANCE AND INPUT CAPACITANCE



RATING CHART