



TYPE
CK6485

Excellence in Electronics

The CK6485 is a heater-cathode type, high transconductance, sharp cut-off pentode of miniature construction designed for use as a wide band or IF amplifier. It will maintain its emission and freedom from excessive cathode interface resistance even after long periods of operation under cut-off conditions. The CK6485 is otherwise identical with the 6AH6.

MECHANICAL DATA

ENVELOPE: T-5 1/2 Glass

BASE: Miniature Button 7-Pin

TERMINAL CONNECTIONS:

- Pin 1 Grid #1
- Pin 2 Grid #3
- Pin 3 Heater
- Pin 4 Heater
- Pin 5 Plate
- Pin 6 Grid #2
- Pin 7 Cathode

MOUNTING POSITION: Any

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: ($\mu\text{fds.}$)

	Unshielded	Shielded ●
Grid #1 to Plate: (g1 to p)	0.030	0.020 max.
Input: g1 to (h+k+g2+g3)	10	10
Output: p to (h+k+g2+g3)	2.0	3.6

DESIGN CENTER MAXIMUM RATINGS:

Heater Voltage	6.3 volts
Plate Voltage	300 volts
Grid #2 Voltage	150 volts
Plate Dissipation ▲	3.2 watts
Grid #2 Dissipation	0.6 watt
Cathode Current	25 ma.

CHARACTERISTICS AND TYPICAL OPERATION:

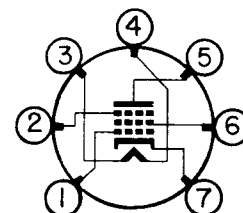
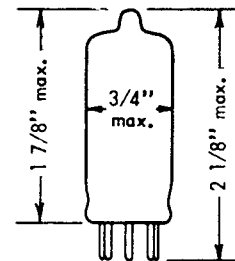
	Pentode Connected	Triode Connected
Heater Voltage	6.3	6.3 volts
Heater Current	0.45	0.45 amp.
Plate Voltage	300	150 volts
Grid #2 Voltage	150	⊕ volts
Cathode Resistor	160	160 ohms
Plate Resistance	0.5	.0036 meg.
Transconductance	9000	11,000 μmhos
Amplification Factor		40
Plate Current	10	12.5 ma.
Grid #2 Current	2.5	ma.
Grid #1 Voltage for $I_b = 10 \mu\text{a.}$ (approx.)	-7	-7 volts
Transconductance (Grid #3-Plate)	♦	

● Using JETEC Shield #316 connected to cathode.

▲ At maximum ratings, it is necessary that at least one surface of the shield, if used, be blackened.

♦ Grid #3 has practically no control characteristic and it is not intended to be used as a control electrode. Its transconductance to the plate approximates 2 micromhos and the μ is 0.7 to 1.0.

⊕ Grid #2 and Grid #3 tied to plate.



BOTTOM VIEW

7BK

Tentative Data

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RECEIVING AND CATHODE RAY TUBE OPERATIONS

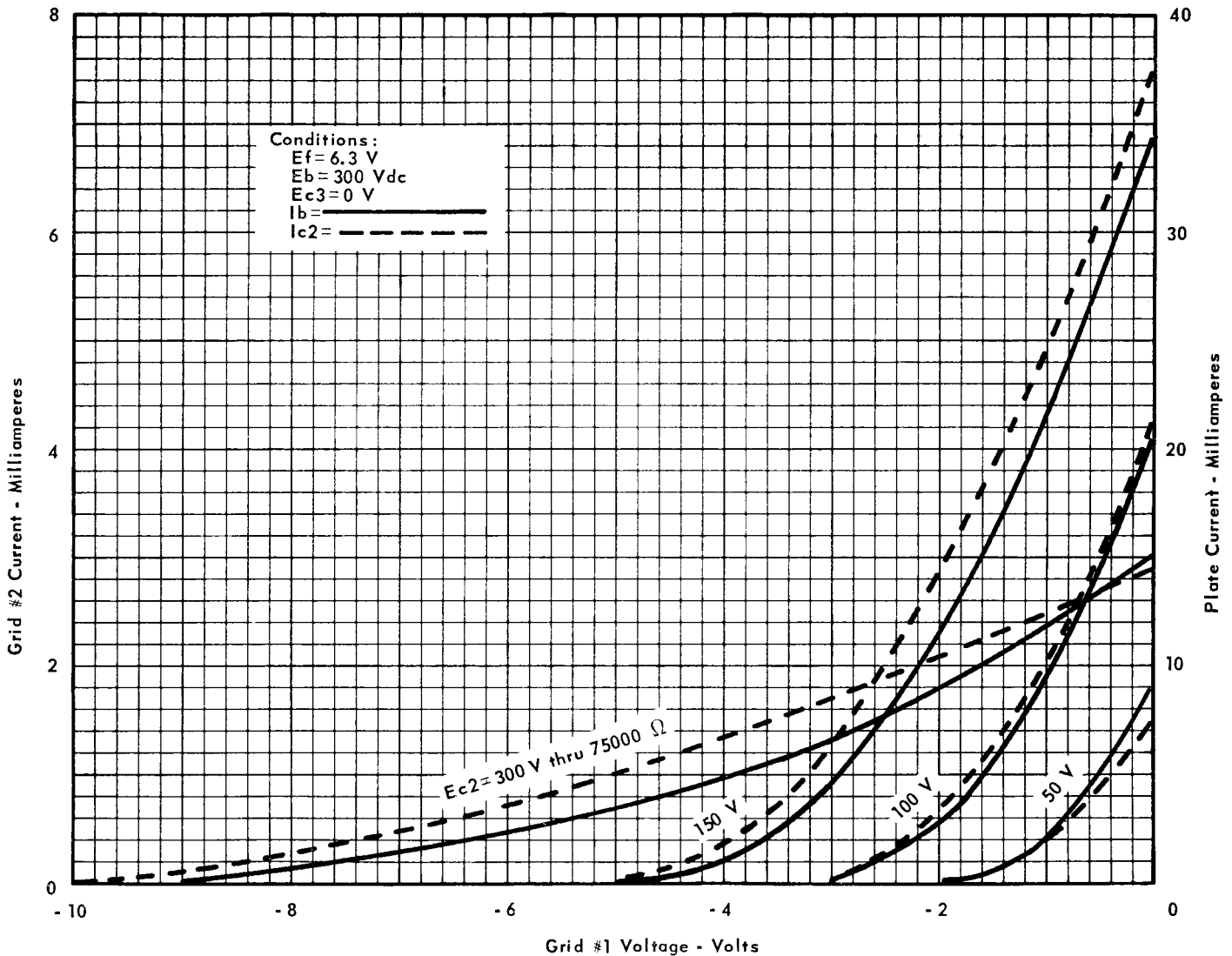


PENTODE

Input Coupling and Sync. Polarity	Output Volts P/P	Voltage Gain	Max. Watts Dissipation		Cathode Resistor Ohms	Cathode Current		Grid Resistor Ohms
			Screen	Plate		No Sig. (ma.)	With Sig. (ma.)	
DC -	66	22	0.6	3.2	39	20	13	5000
DC +	100	25	0.4	3.2	270	8	15	5000
AC -	100	25	0.6	3.2	39	20	21	1 meg.
AC +	100	25	0.6	3.2	39	20	18	1 meg.

All data taken with Screen voltage of 150 and Plate load of 4000 ohms with typical on-the-air television signals and average production tubes.

AVERAGE CHARACTERISTICS



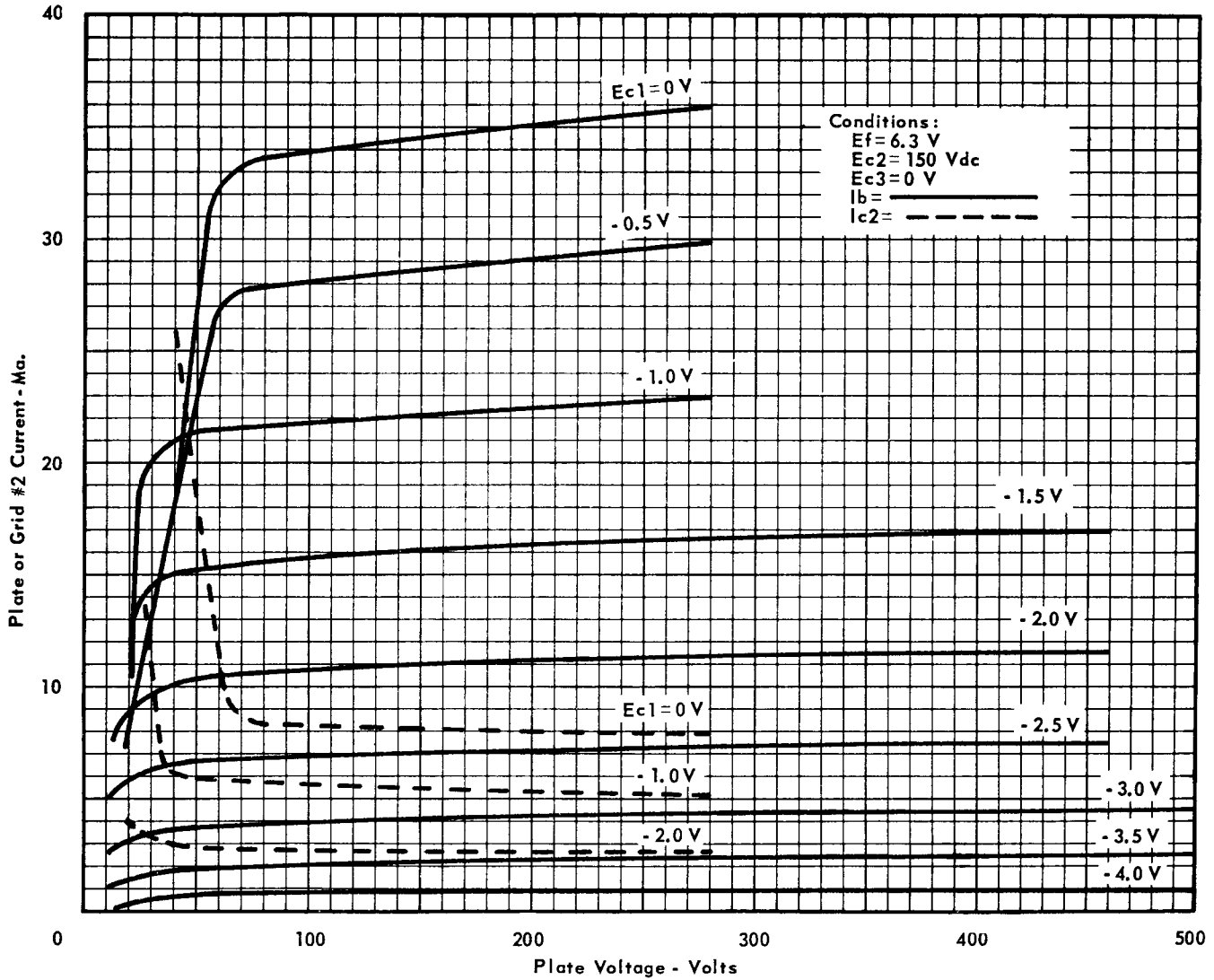
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PENTODE

AVERAGE PLATE CHARACTERISTICS



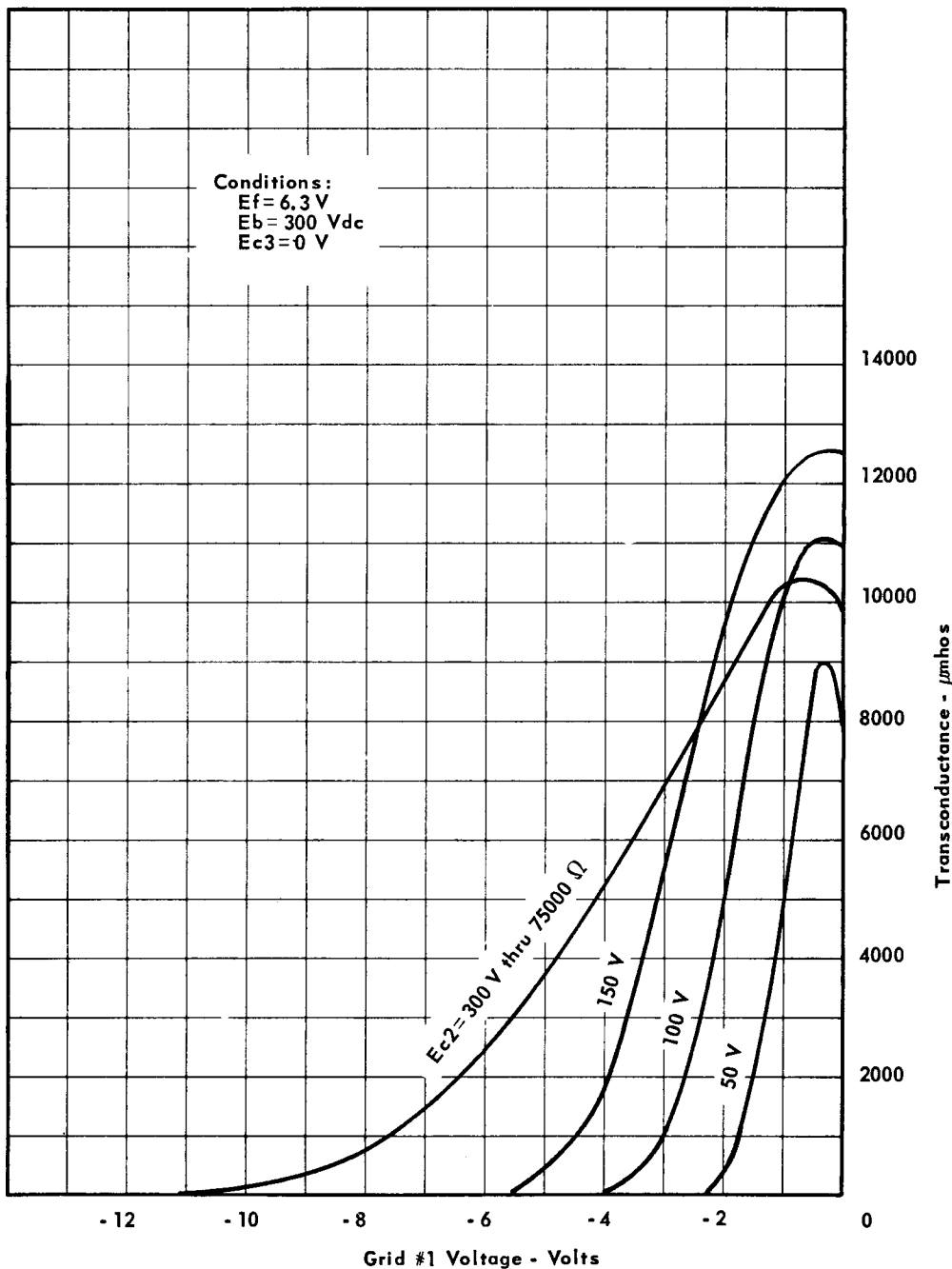
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PENTODE

AVERAGE CHARACTERISTICS



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