

RETMA Registration Data
TYPE 3W4/3S4-SF
POWER AMPLIFIER PENTODE

MECHANICAL DATA

Cathode coated filament
Outline drawing 5-2, Bulb T-5 1/2
Base E7-1, Miniature Button 7-pin
Maximum diameter 3/4"
Maximum seated height 1 7/8"
Maximum overall length 2 1/8"
Pin connections Basing 7BA
Pin 1 - Negative filament (+parallel) Pin 5 - Filament center-tap & Grid #3(-parallel)
Pin 2 - Plate Pin 6 - Plate
Pin 3 - Grid #1 Pin 7 - Positive filament
Pin 4 - Grid #2
Mounting position Any

ELECTRICAL DATA

Filament Characteristics	parallel	series
Filament voltage (dc)	1.4 volts	2.8 volts
Filament current	50 ma	25 ma

Ratings (Design center values)

Maximum plate voltage	90 volts
Maximum grid #2 voltage	90 volts
Maximum cathode current	11 ma

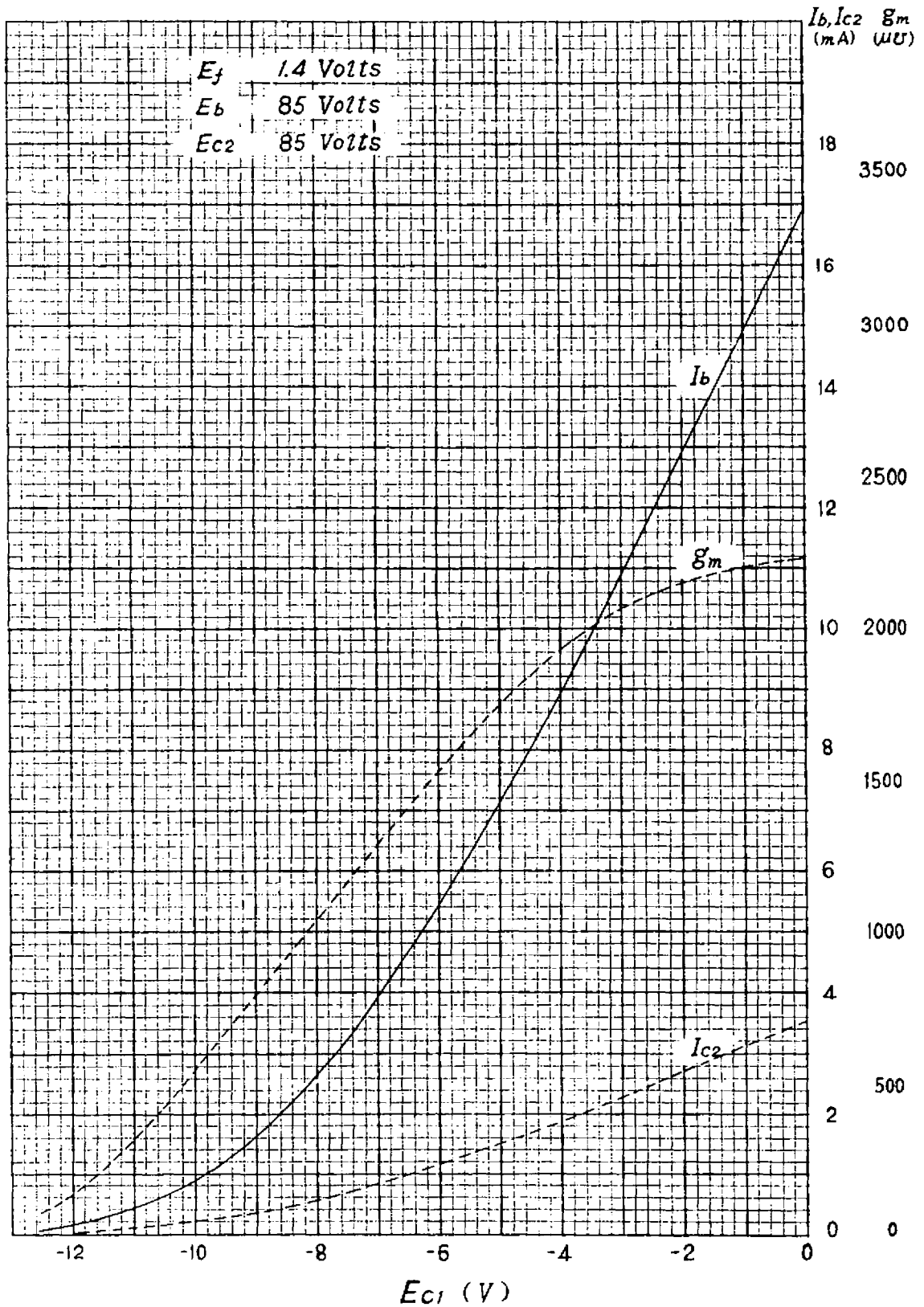
Typical Operating Conditions and Characteristics

Plate voltage	85 volts
Grid #2 voltage	85 volts
Grid #1 voltage	-5.2 volts
Plate resistance (approx.)	0.15 megohms
Transconductance	1700 micromhos
Peak a-f signal voltage	5.2 volts
Zero signal plate current	6.8 ma
Zero signal grid #2 current	1.4 ma
Load resistance	11000 ohms
Total harmonic distortion	12 %
Power output	0.25 watts

2/10/56 THE FEDERATION OF JAPAN ELECTRIC COMMUNICATION INDUSTRIAL ASSOCIATIONS
"Sankei Kaikan" Bldg. 3W4/3S4-SF
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J A P A N

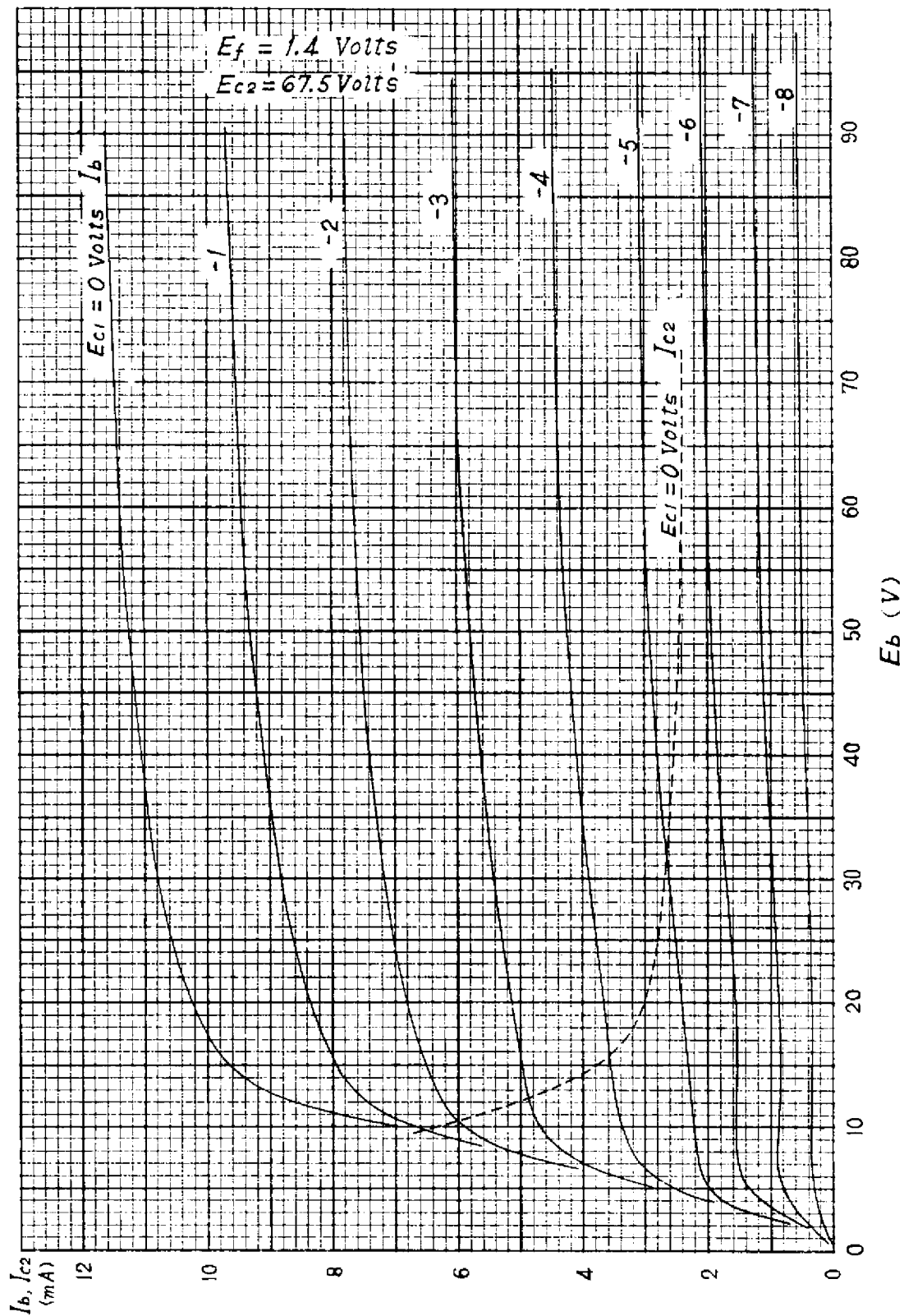
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$E_{c1} - I_b, I_{c2}, g_m$ Characteristics Curves



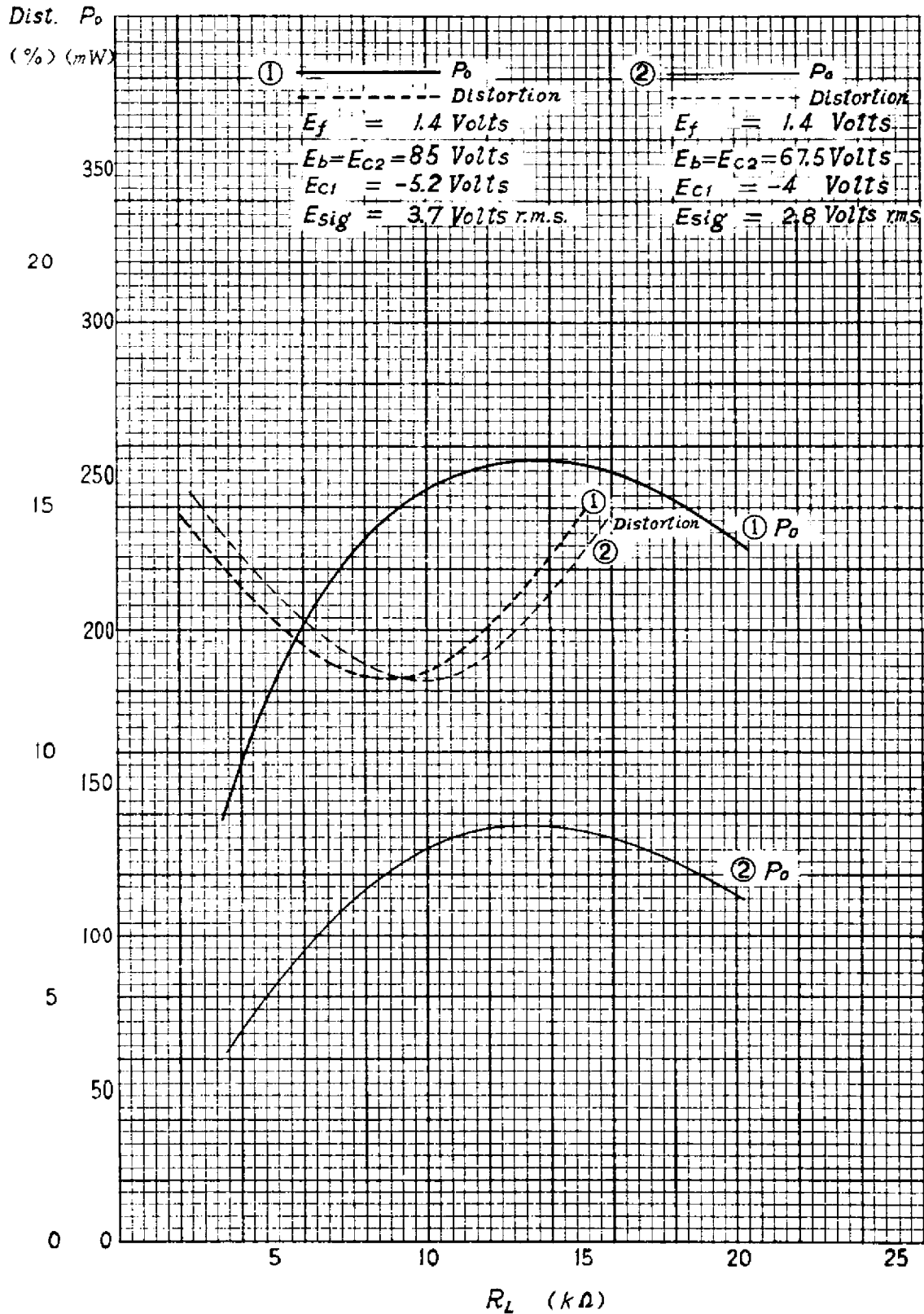
3W4/3S4-SF

$E_b - I_b, I_{c2}$ Characteristics Curves



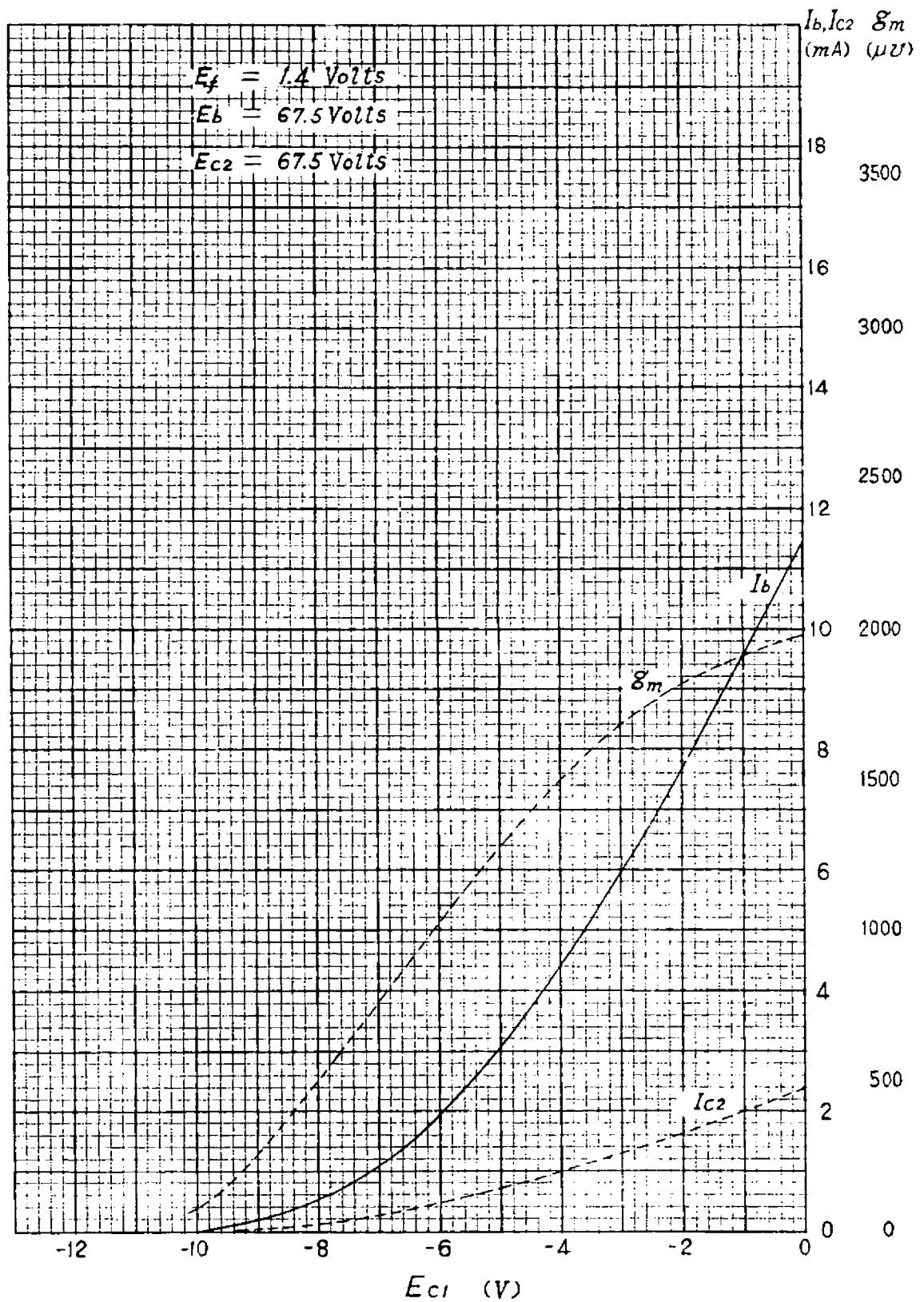
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$R_L - P_o$, Distortion Characteristics Curves



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$E_{c1} - I_b, I_{c2}, g_m$ Characteristics Curves



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$E_b - I_b, I_{c2}$ Characteristics Curves

