

RADIO MANUFACTURERS ASSOCIATION

SUITE 701-4 AMERICAN BUILDING
1317 F STREET, N.W.
WASHINGTON, D. C.



R.M.A. DATA BUREAU
90 West Street
New York, N. Y.

Release No. 492

May 3, 1946

To
Tube Engineers:

Registration has been made by the RMA
Data Bureau of the vacuum tube type designation

2B23 (Registration No. 1131)

as defined by the characteristics and ratings given
in the attached data on application of

General Electric Company
Schenectady, New York

Respectfully yours,

RMA DATA BUREAU

By

A handwritten signature in dark ink, appearing to read "J. C. Horle" or similar, written over a horizontal line.

LCFHorle/CAP

ELECTRONICS DEPARTMENT

GENERAL ELECTRIC**Magnetically Controlled Diode 2B23--Description
and Rating**

The 2B23 is a high-vacuum diode in which the plate current can be controlled by a magnetic field.

PRELIMINARY TECHNICAL INFORMATION

These data are for reference only. For design information see the Specifications.

GENERAL CHARACTERISTICS

Number of Electrodes 2

Electrical

Cathode - Coated Unipotential

Voltage 6.3 Volts

Current 0.3 Amperes

Average Characteristics, $E_b = 100$ Volts, $I_b = 8$ ma

Field Strength (B) 55 Gauss

Minimum Control Sensitivity, $I_b = 8$ ma, $E_b = 100$ Volts 2 Milliamperes per GaussMechanical

Type of Cooling - Convection

Base Description - Intermediate-shell Octal 6-pin, Phenolic

Pin 1 - Internal Connection

Pin 5 - Internal Connection

Pin 2 - Heater

Pin 7 - Heater

Pin 3 - Plate

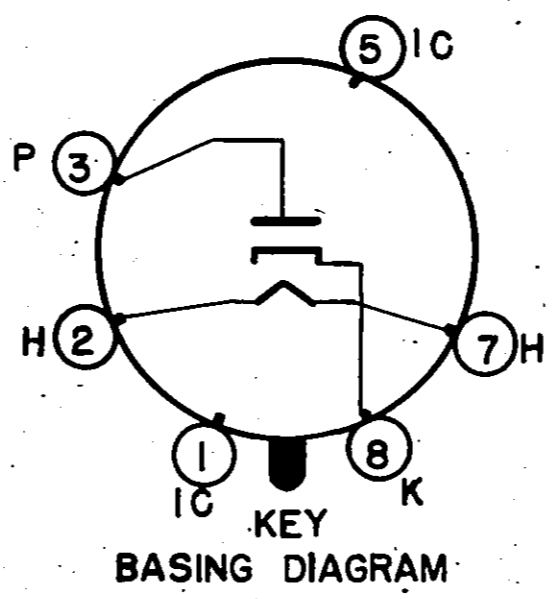
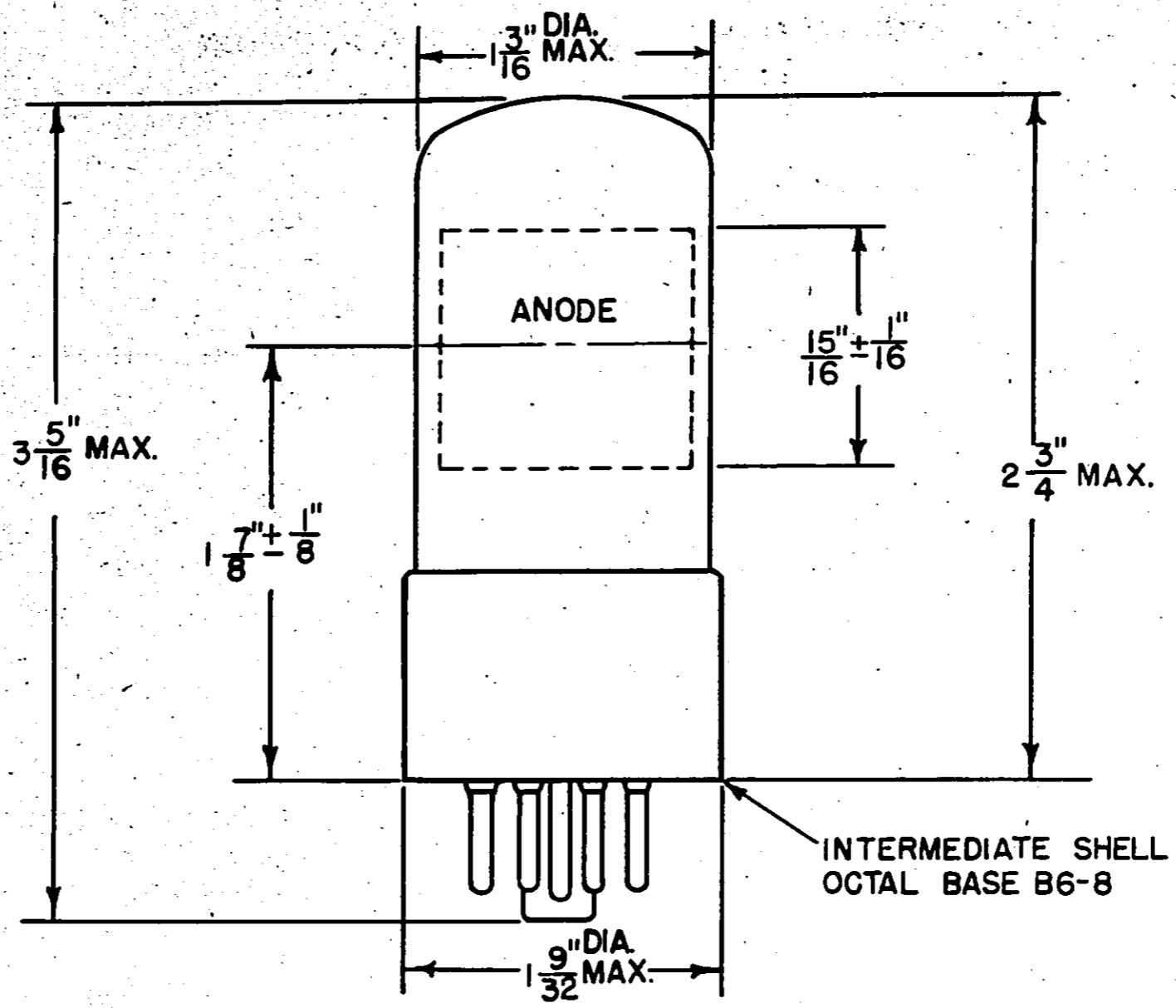
Pin 8 - Cathode

Mounting Position - Any

Bulb T-9

Basing Diagram-4BQ**MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS**

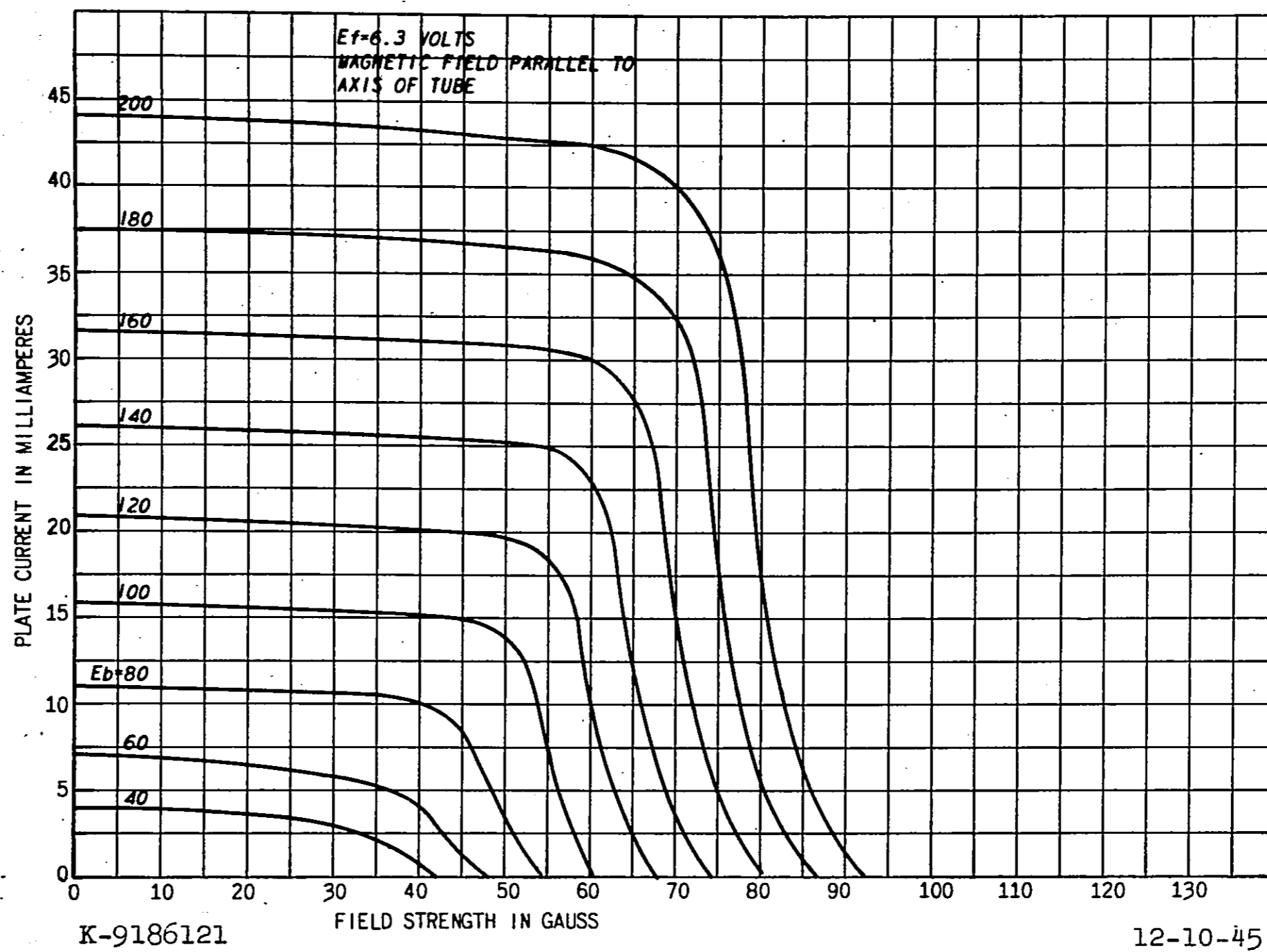
	Typical Operation	Maximum Ratings	
<u>Direct-Current Amplifier</u>			
D-c Plate Voltage		150	Volts
Plate Supply Voltage	150		Volts
Plate Dissipation		5	Watts
Load Resistance	6000		Ohms
Change in Load Voltage with			
Change in Field Strength at Center of Operating Range, approximate	2.5		Volts per Gauss
Plate Current Operating Range	0-11	30	Milliamperes
Field Strength Operating Range	100-50		Gauss
<u>Electronic Switch</u>			
D-c Plate Voltage	100	150	Volts
Plate Dissipation	1.6	5	Watts
Load Resistance, approximate	100		Ohms
Sensitivity at Center of Control Range, approximate	2.5		Milliamperes per Gauss
Plate Current - B = 50 Gauss	14	30	Milliamperes
Plate Current - B = 70 Gauss, approximate	0.2		Milliamperes



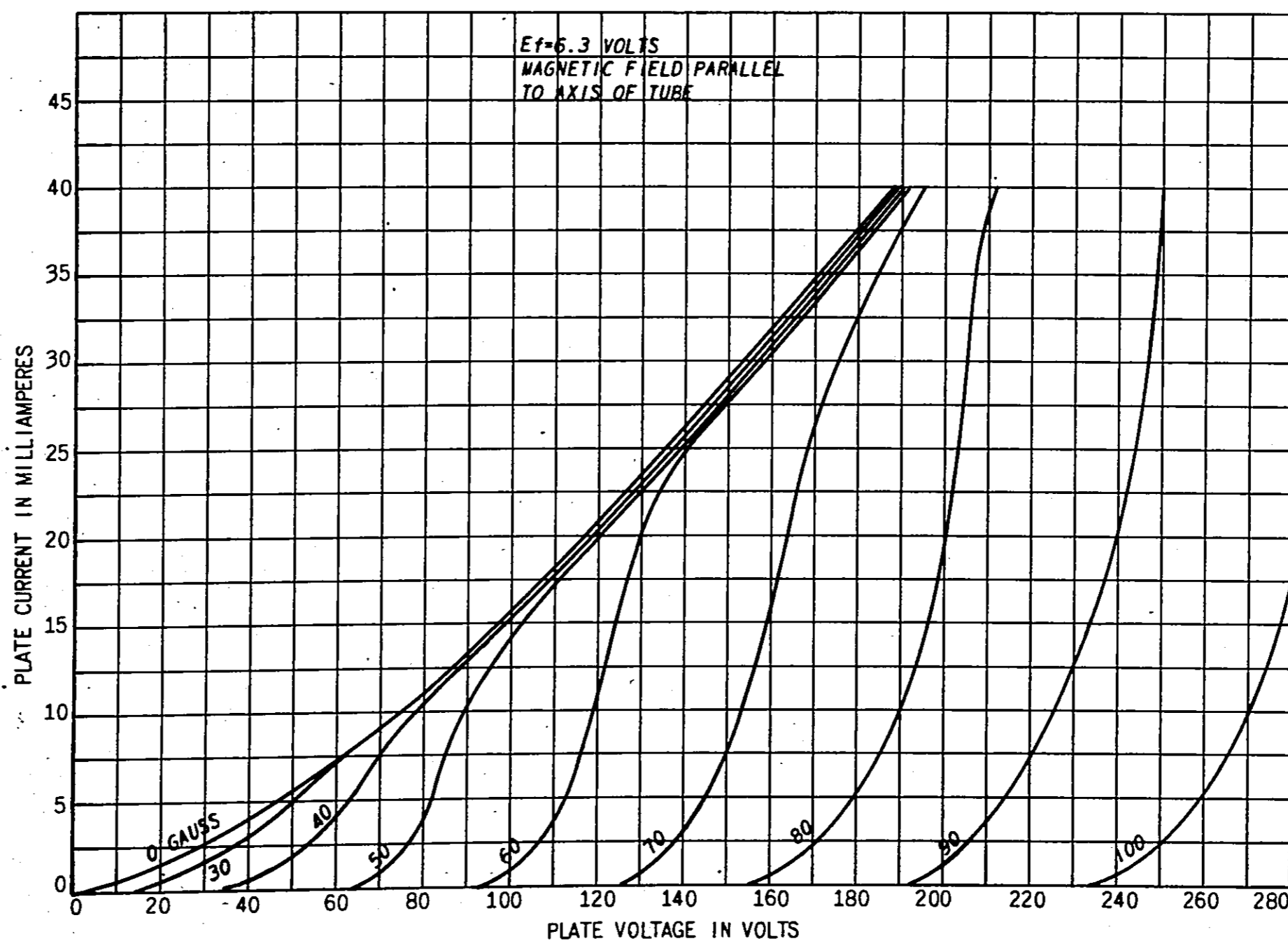
N-12000AZ

Outline
2B23

12-3-45



2B23
Average Control Characteristics



2B23
Average Plate Characteristics