

ELECTRONICS DEPARTMENT  
**GENERAL  ELECTRIC**

**Kenotron 400--Description and Rating**

The 400 is a two-electrode high-vacuum tube especially designed and tested to serve as a means for the study of fundamental electronic phenomena. The pure tungsten filament used renders this tube especially advantageous for emission studies.

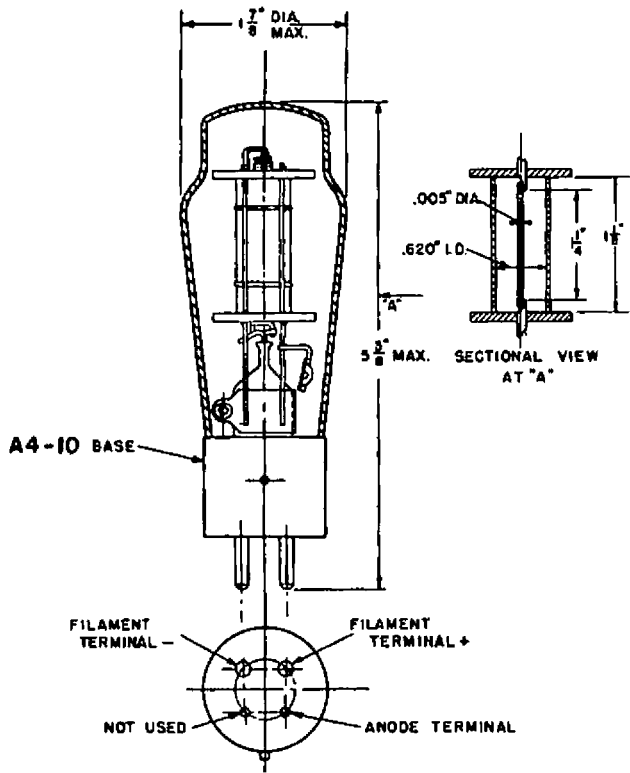
**TECHNICAL INFORMATION**

**GENERAL DESIGN**

Number of Electrodes	2
Filament - Tungsten	
Voltage	4.0 Volts
Current	2.25 Amperes
Diameter	0.005 Inches
Length, free length of filament	1.25 Inches
Average filament lead resistance, excluding filament	0.08 Ohms
Anode - Zirconium-coated Nickel	
Inside Diameter	0.620 Inches

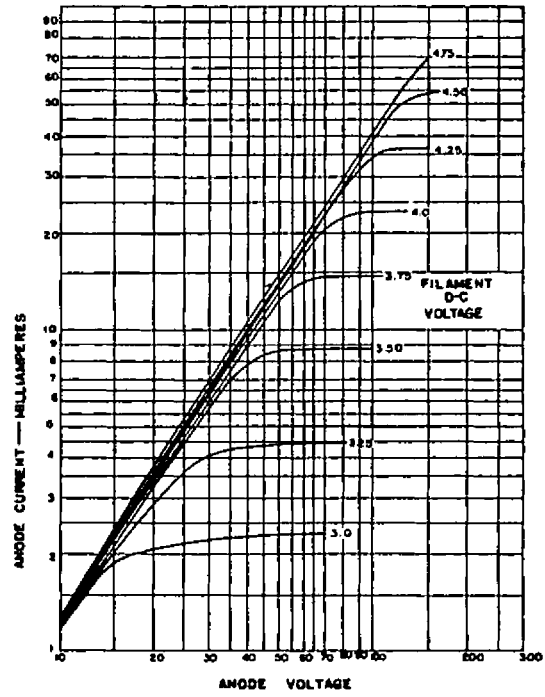
**MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS**

	<u>Typical Operation</u>	<u>Maximum Ratings</u>	
Filament Voltage	4.0	4.75	Volts
Filament Current	2.25		Amperes
Anode Voltage	100	125	Volts
Anode Current	0.025		Ampere
Magnetron Characteristics			
Magnetic Field for			
Anode Voltage = 80 volts			
Normal Anode Current - Below 80 gauss			
Minimum Anode Current - Above 130 gauss			
Anode Dissipation, watts		15	



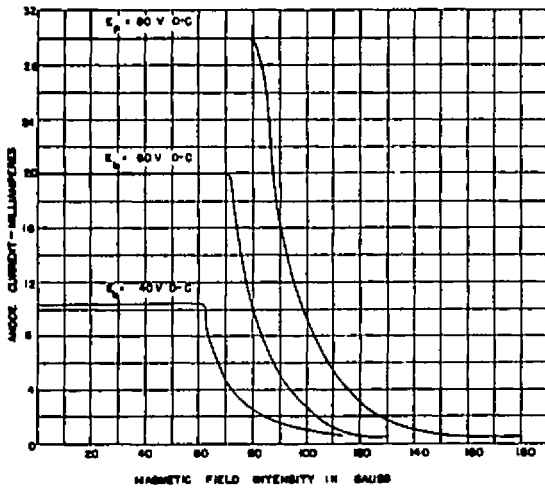
Outline Kenotron 400  
K-5965352 8-24-44

400  
ANODE CURRENT CHARACTERISTICS

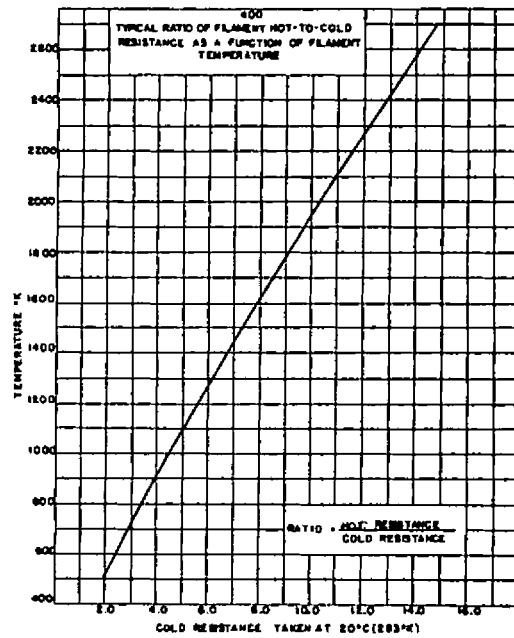


Anode Current Characteristics  
K-8639677 8-29-44

400



Typical Magnetic Control Characteristics  
K-8639678 8-29-44



Typical Ratio of Filament  
Hot-to-Cold Resistance as a  
Function of Filament Tem-  
perature  
K-8639680 9-12-44