

ITT ELECTRON
TECHNOLOGY

P.O. Box 100
Easton, Pennsylvania 18044-0100
Telephone 215 252-7331

F-7869

POWER DIODE

DESCRIPTION

The F-7869 is a diode designed for rectifier or in special applications in shunting or charging circuits. The construction is exceptionally rugged with a thoriated tungsten filamentary cathode of bifilar helical construction. The anode is forced air-cooled and is capable of dissipating 3.5 kilowatts.

ELECTRICAL

Filament Voltage				15	Volts
Filament Current				36	Amperes
Filament Starting Current					
Full rated filament voltage may be safely applied to the cold filament					
Maximum Ratings	<u>Shunt</u>	<u>Charging</u>	<u>Rectifier</u>		
Max. Peak Inverse Voltage . .	65	65	56		Kilovolts
Max. Peak Plate Current . .	100	100	21		Amperes
Max. Average Plate Current .	-	-	4		Amperes
Average Plate Current			140,000		
Interelectrode Capacitance			9.5		µuf

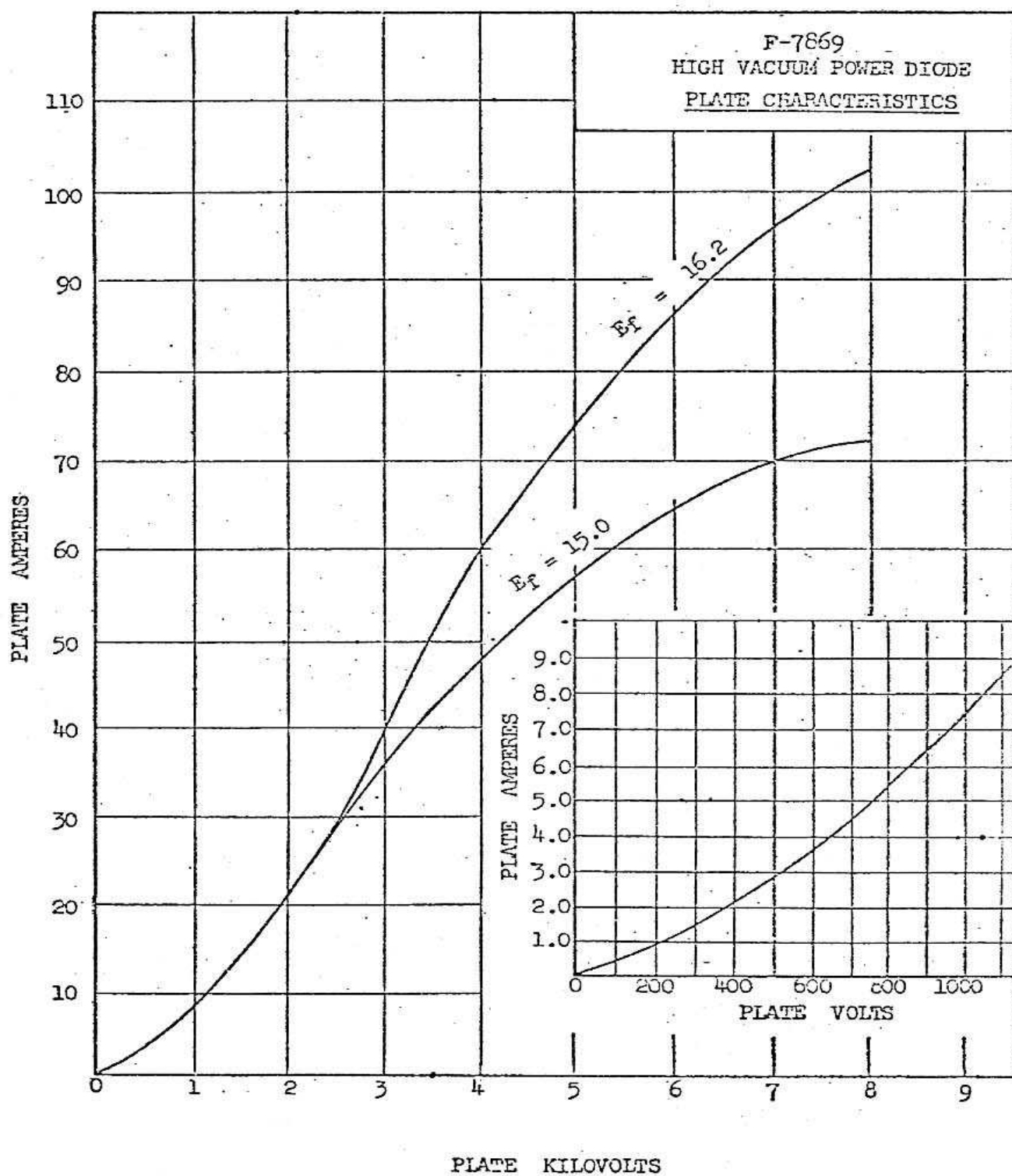
MECHANICAL

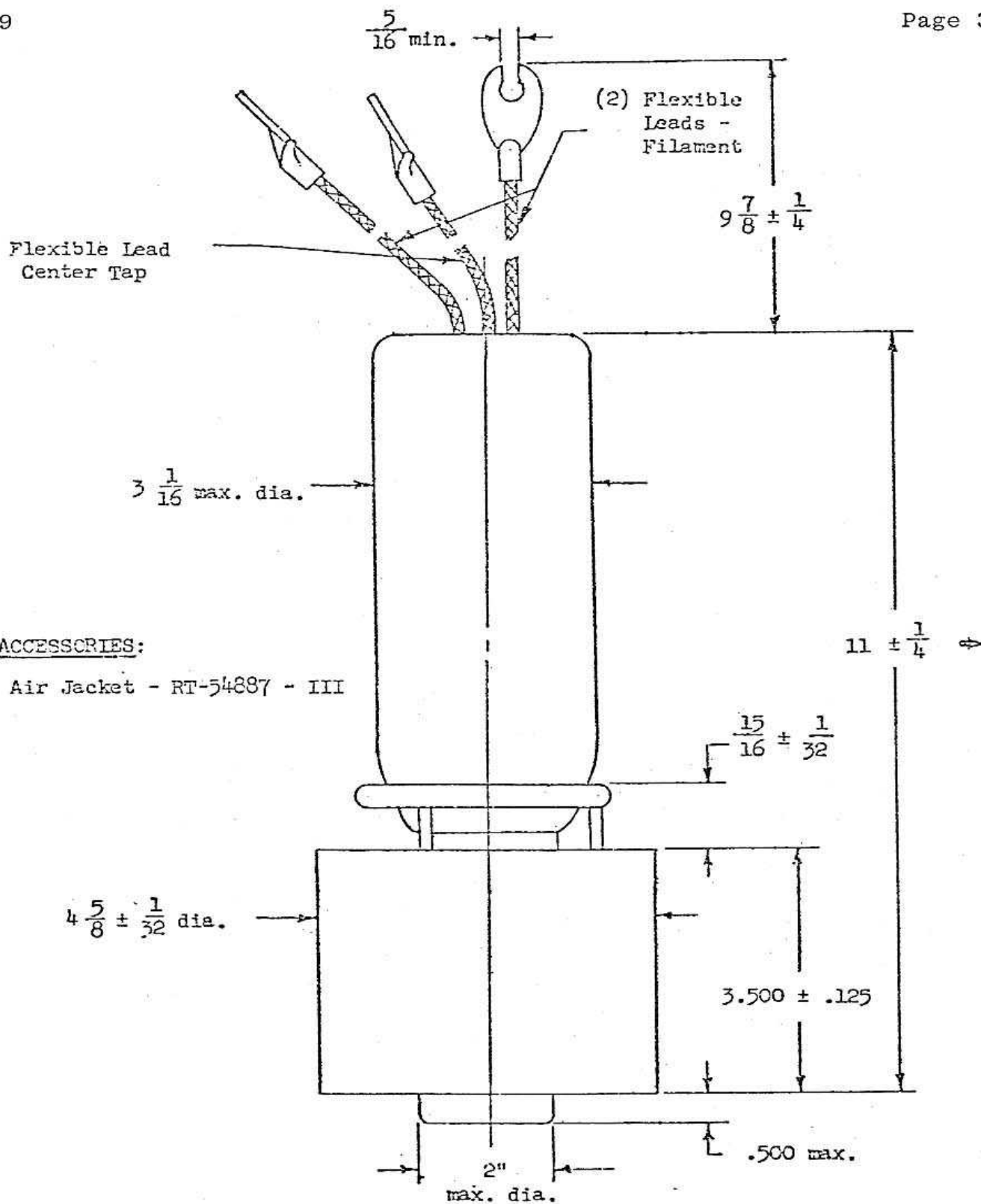
Mounting Position					Vertical, Anode Up or Down
Maximum Glass & Seal Temperature					180°C
Type of Cooling					Forced Air
Anode Air Flow Required					
Plate Dissipation		3.5	2.8	2.4	Kilowatts
Air Flow		190	125	75	CFM
Pressure		1.6	.78	.35	" of Water
Maximum Incoming Air Temperature				45	°C
Net Weight (Approximate)				7	Pounds

Additional information for specific applications may be obtained from:

ITT ELECTRON TECHNOLOGY DIVISION
Applications Department
P.O. Box 100
Easton, Pennsylvania 18044-0100

ELECTRON TECHNOLOGY DIVISION **ITT**



ACCESSORIES:

Air Jacket - RT-54887 - III

OUTLINE

F-7869 POWER DIODE

➤ Indicates change from Data Sheet of 9-61

ELECTRON TECHNOLOGY DIVISION**ITT**

BOX 100 EASTON, PA. 18044-0100