

ITT ELECTRON TECHNOLOGY

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

F-8207 F-8207J POWER DIODES

DESCRIPTION

Tube types F-8207 and F-8207J are diodes designed for rectifier service or in special applications in shunting or charging circuits. The exceptionally rugged construction, free of internal insulators, spring tensioning devices, and fragile elements, makes these diodes adaptable to a wide range of uses. The heavy wall, water-cooled anode is capable of dissipating up to 8 kilowatts at 3.5 gpm. The F-8207J is provided with an integral water jacket and the inlet and outlet water connections are male fittings for quick-connect coupling without tools.

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 . .	30	30 30 Kilovolts
Max. Peak Plate Current . . .	100	7.5 rms 20 Amperes
Max. Plate Current	-	6 Amperes Avg.

MECHANICAL

Mounting Position	Vertical, Anode Up or Down		
Type of Cooling	Circulating Water		
Plate Dissipation	8	6	4 Kilowatts*
Water Flow	3.5	2.3	1.0 gpm
Water Jacket Pressure Drop†			
Water Pressure			80 psig Max.
Outlet Water Temperature			70 °C Maximum
Maximum Glass & Seal Temperature*			180 °C
Net Weight (Approximate)			2 Pounds

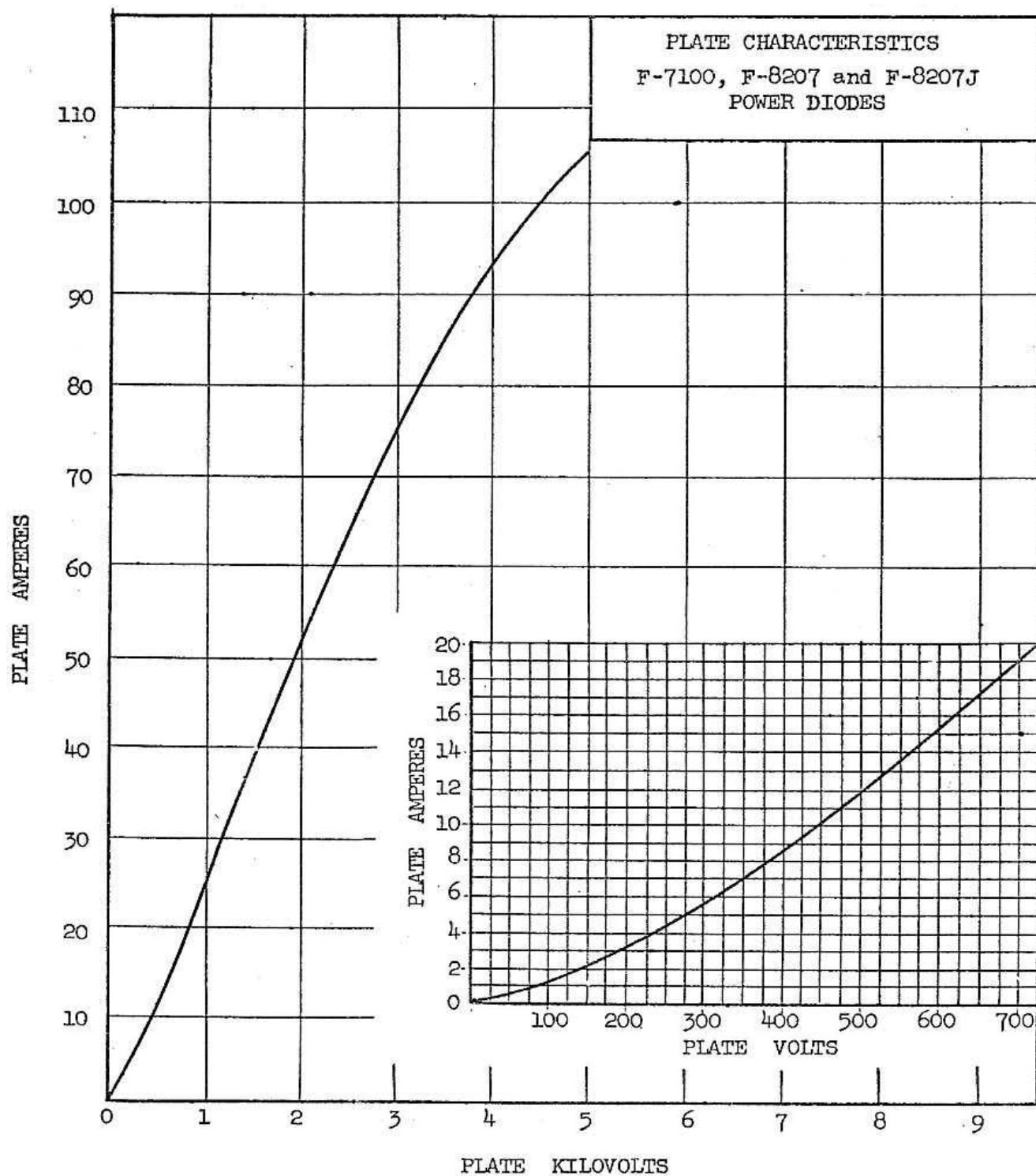
†The pressure drop across the jacket is negligible compared to the drop in the associated plumbing.

*Up to 20 cfm of air directed at the bulb and seals may be required to limit the temperature to 180°C maximum.

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

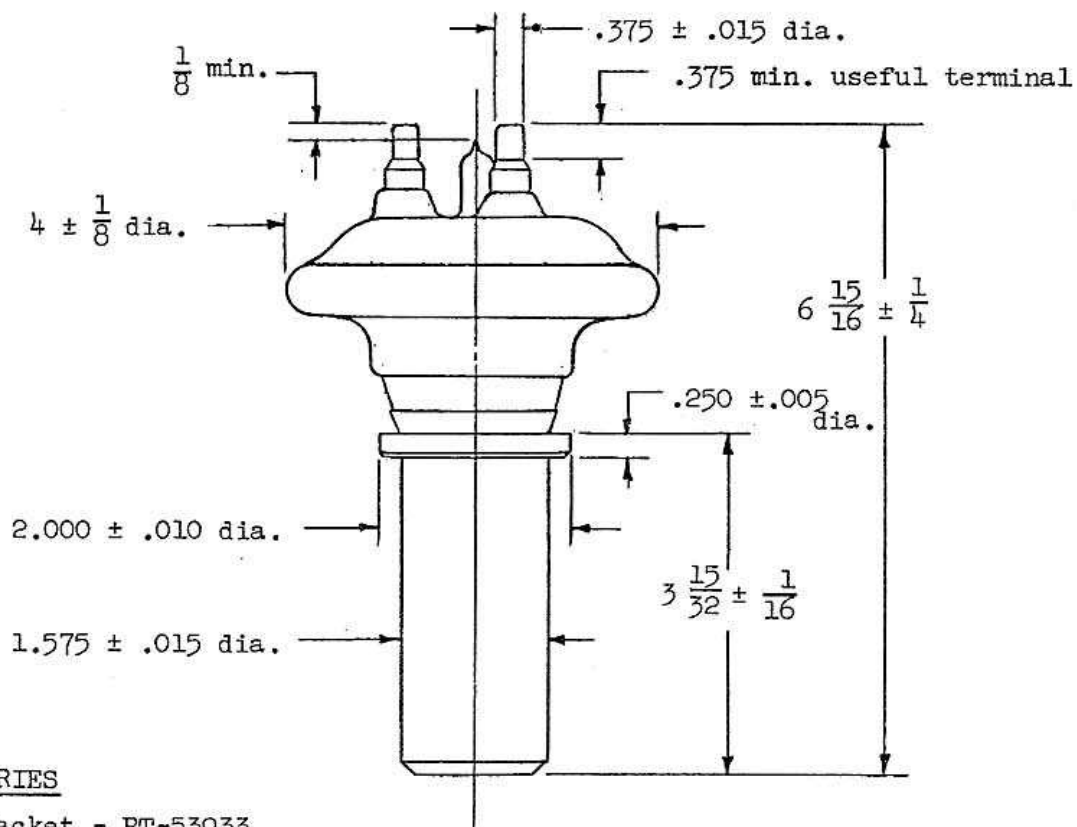
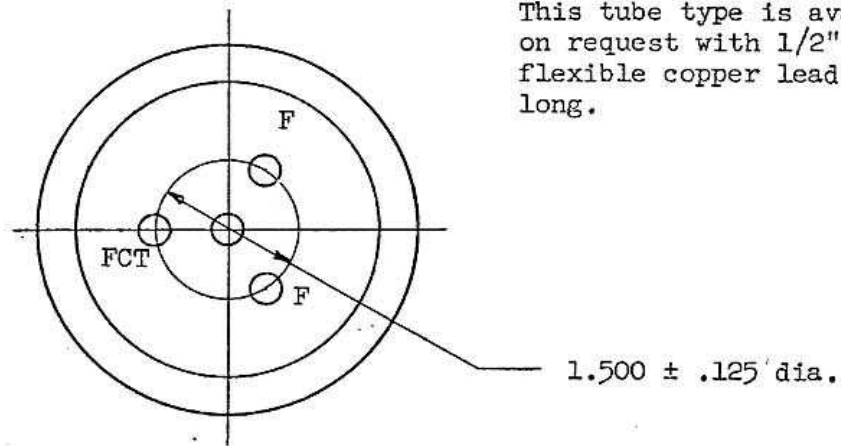


F-8207

Color Code

Fil. Term. - Yellow

Fil. C. Term. - Red

ACCESSORIES

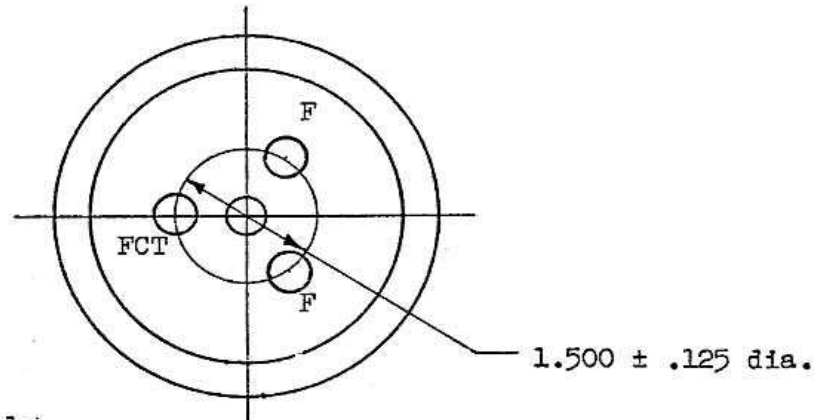
Water Jacket - RT-53933

O'Ring - RT-53836 "A-A"

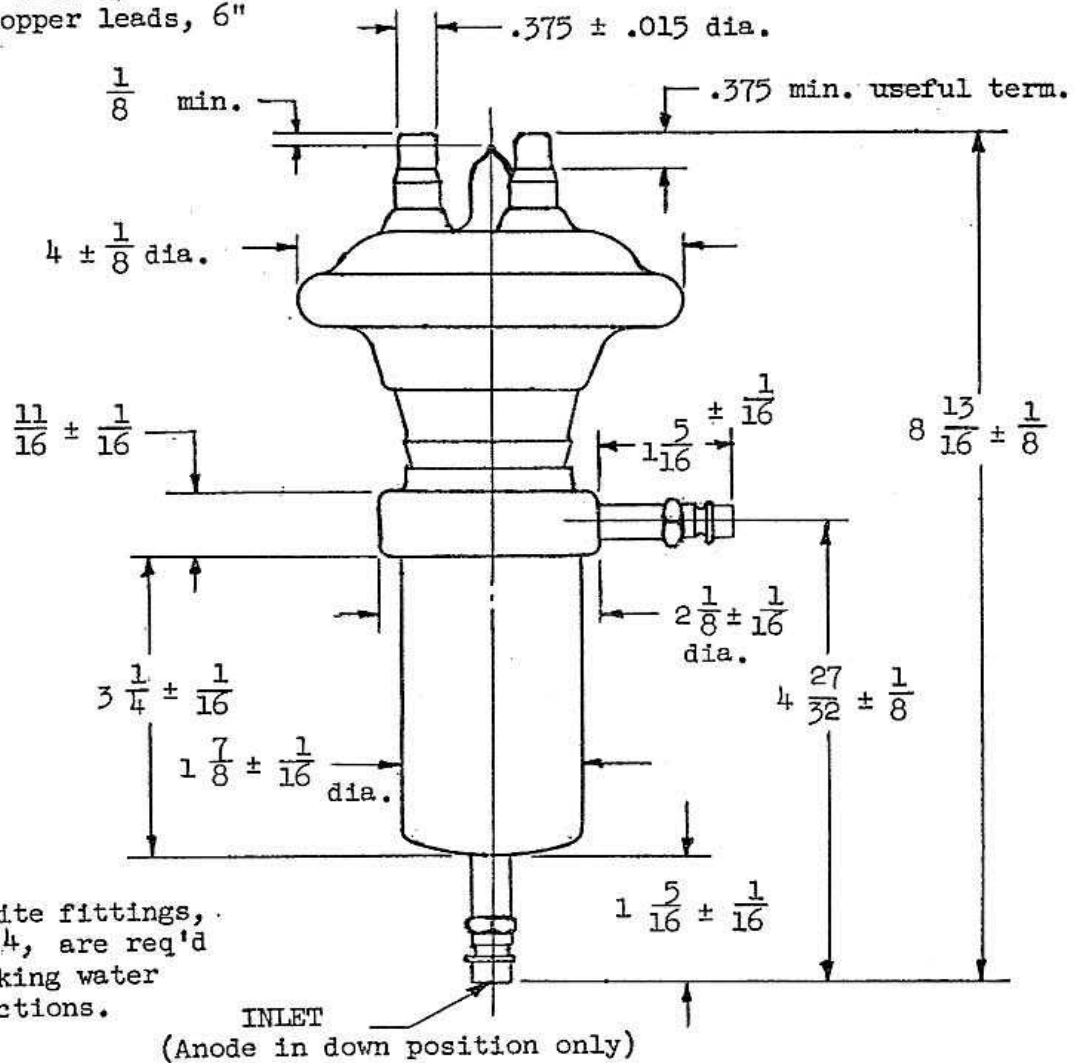
F-8207J

Color Code

Fil. Term. - Yellow
 Fil. C. Term. - Red



This tube type is available on request with 1/2" wide flexible copper leads, 6" long.



NOTE-Snaptite fittings, BPHC-4, are req'd in making water connections.

INLET
 (Anode in down position only)