



ELECTRON TUBE DEPARTMENT ■ COMPONENTS DIVISION
INTERNATIONAL TELEPHONE AND TELEGRAPH CORPORATION, CLIFTON, NEW JERSEY

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, make 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	Shunt	Charging	Rectifier
Max. Peak Inverse Voltage	30	30	30 kilovolts
Max. Peak Plate Current	100	7.5 rms	20 amperes
Max. Plate Current	-	-	6 avg. amperes

MECHANICAL

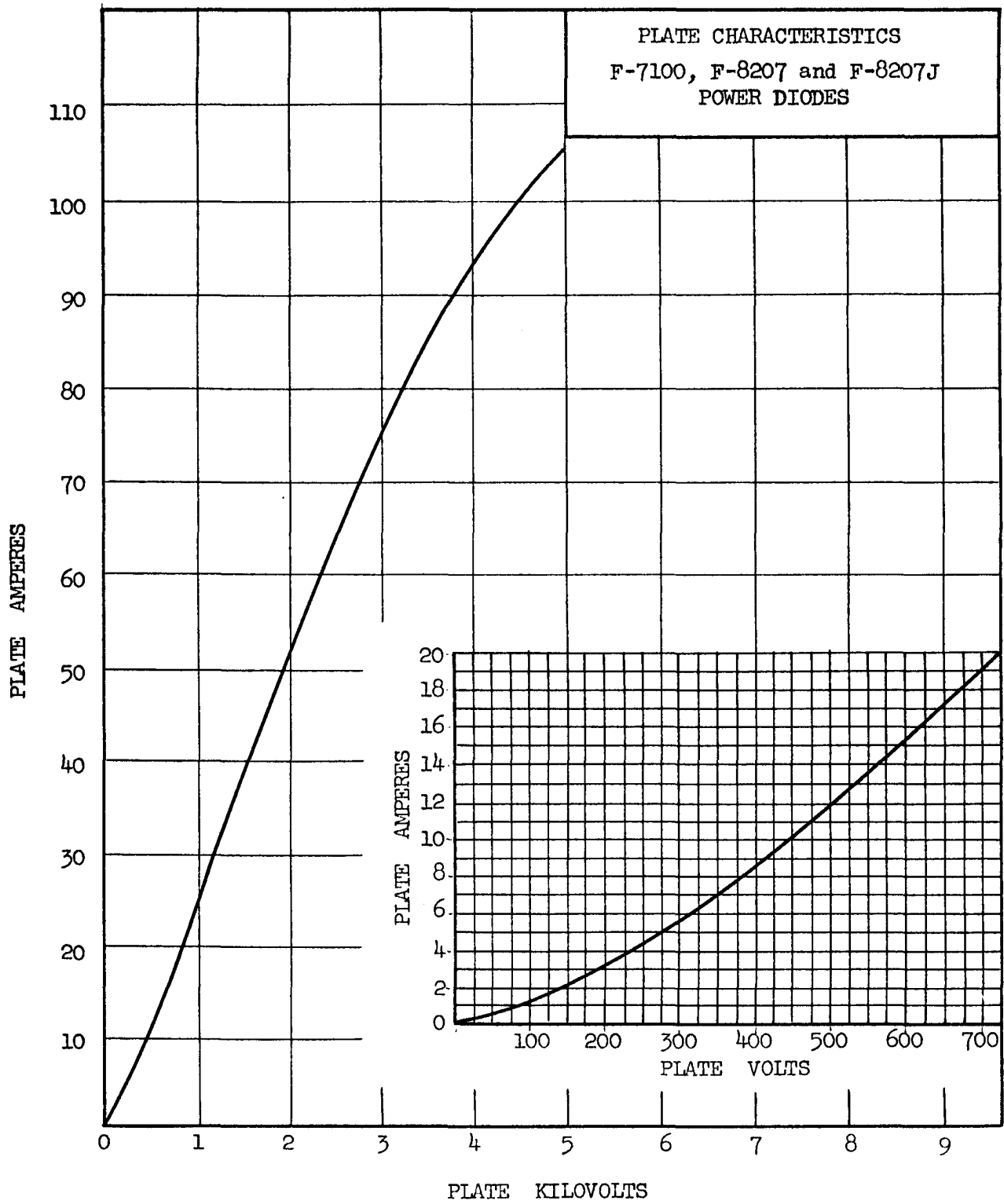
Mounting Position	Vertical, Anode up or down		
Type of Cooling	Circulating water		
Plate Dissipation	8	6	4 kilovolts
Water Flow	3.5	2.3	1.0 gpm
Water Jacket Pressure Drop ‡			
Water Pressure, max.			80 psig
Outlet Water Temperature, max.			70 °C
Max. Glass and Seal Temperature			180 °C
Net Weight, approx.			2 lbs.

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

Additional information for specific applications can be obtained from:

Electron Tube Applications Section
ITT Components Division
P.O. Box 412
Clifton, New Jersey

* Formerly our D-1050 and D-1050J

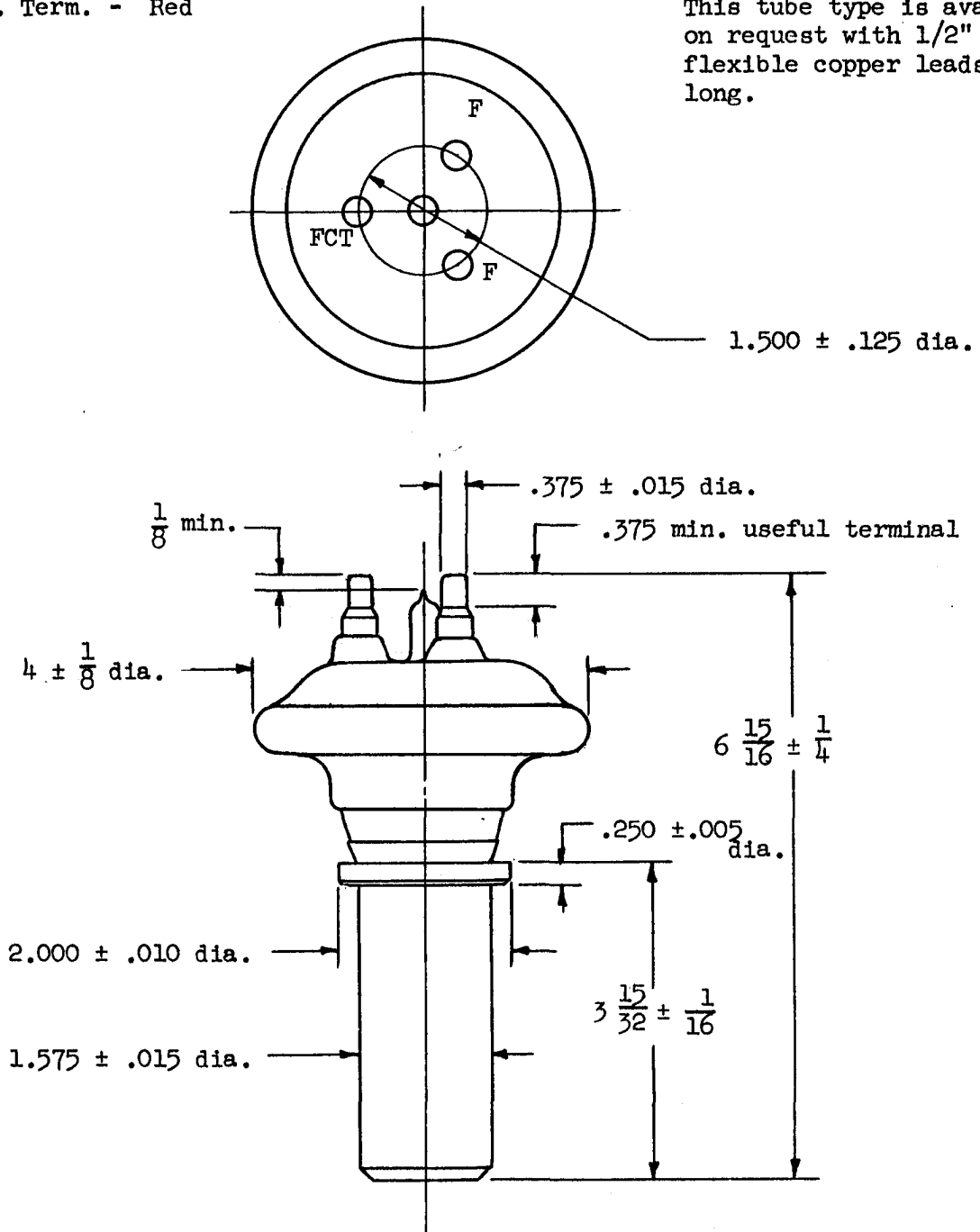


Color Code

Fil. Term. - Yellow

Fil. C. Term. - Red

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

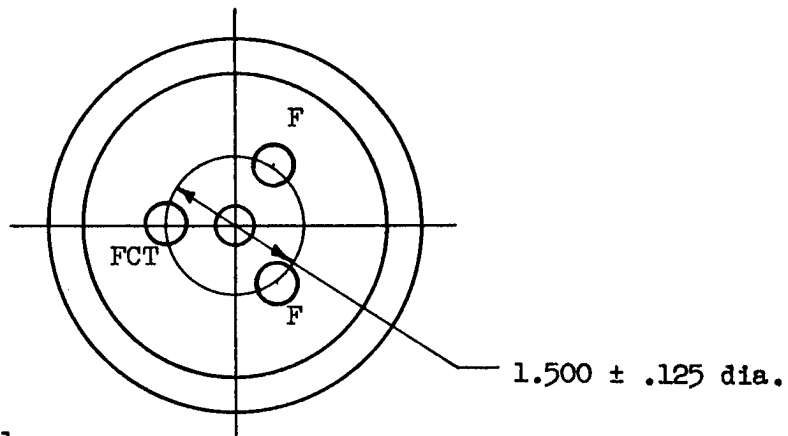


OUTLINE
F-8207 POWER DIODE

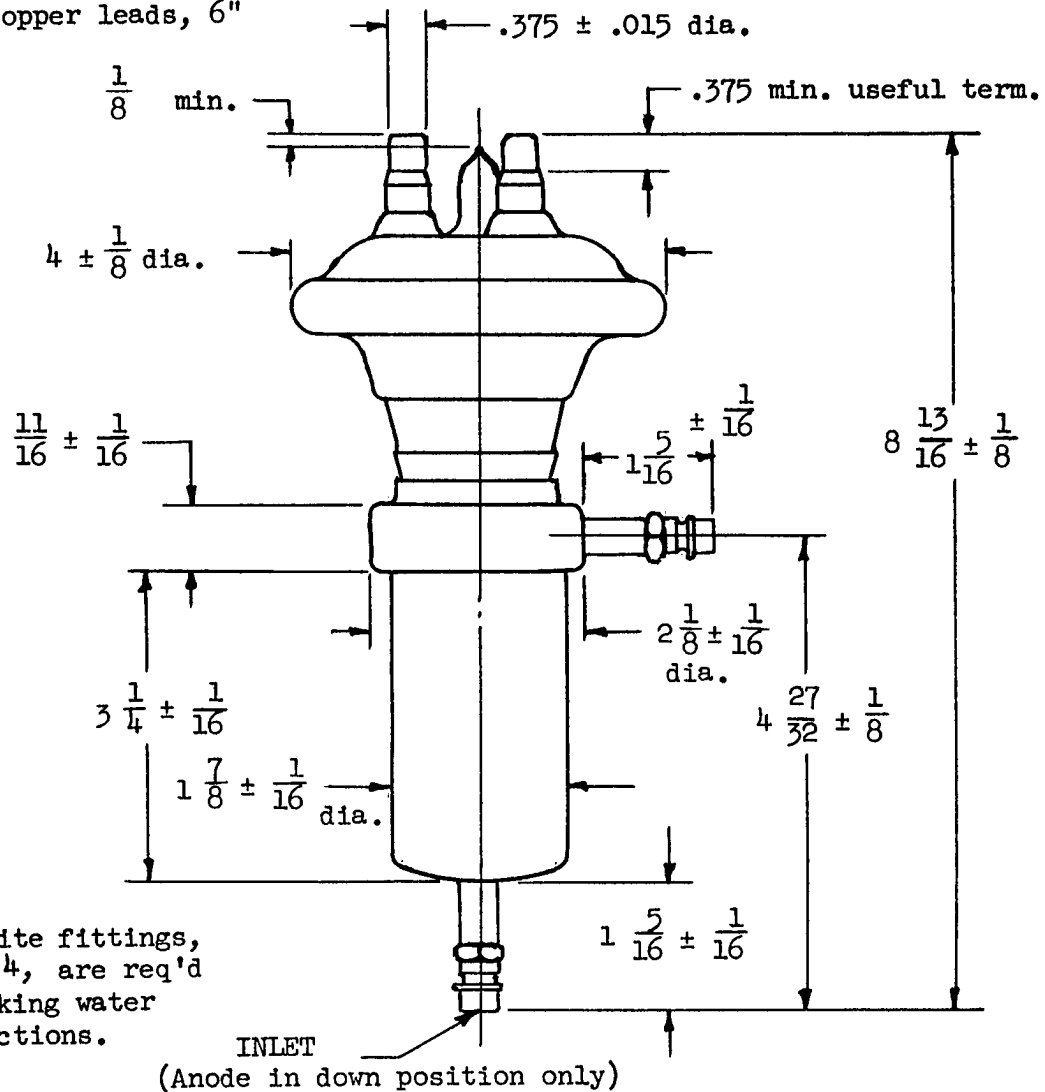


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NOTE-Snaptite fittings,
BPHC-4, are req'd
in making water
connections.

INLET 
(Anode in down position only)

OUTLINE
F-8207J POWER DIODE