engineering TUBE DATA

F-7030
HIGH VACUUM
POWER DIODE

ITT Components Division

Tentative Specification

DESCRIPTION

The F-7030 is a diode 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 this type adaptable to a wide range of uses. The anode is forced air cooled and is capable of dissipating 2.5 kilowatts. The cathode is a thoriated tungsten bifilar helix.

ELECTRICAL

Filament Voltage	13 volts
Filament Current	36 amperes
Filament Starting Current	
Full rated filament voltage may be safely applied to the cold filament	
Rectifier Ratings	
Maximum Peak Inverse Voltage	25 kilovolts
Maximum Peak Plate Current	30 amperes
Maximum Average Plate Current	6 amperes
Shunt Diode Ratings	
Maximum Peak Inverse Voltage	25 kilovolts
Maximum Peak Plate Current	*75 amperes
Maximum Average Plate Current	*.7

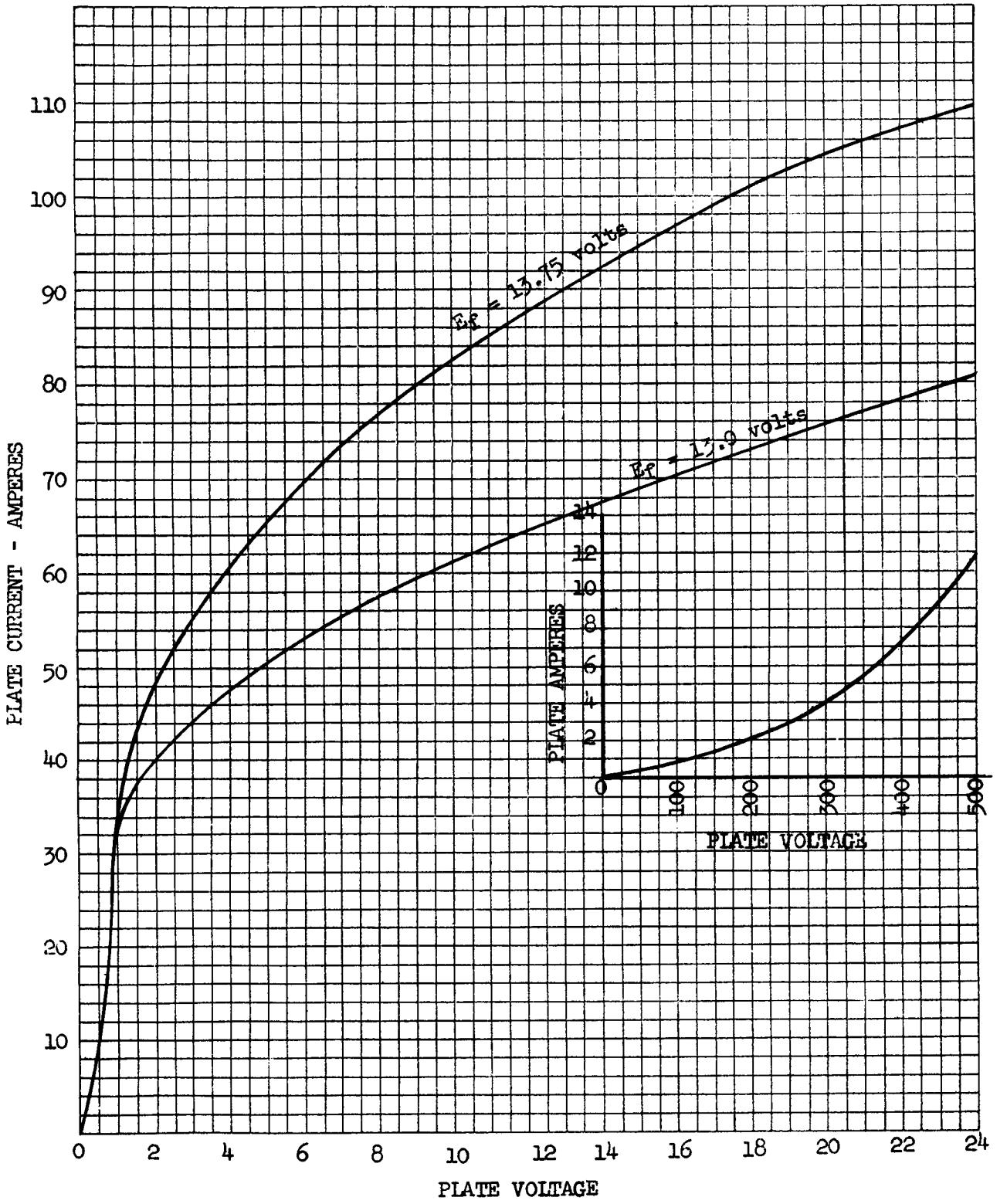
MECHANICAL

Mounting Position	Vertical, Anode up or down					
Type of Cooling	Forced Air					
Anode Air Flow Required						
Plate Dissipation - kilowatts	2.5	2.0	1.5	1.0	0.5	
Air Flow - cfm	150	120	90	65	50	
Pressure - inches of water	2.5	1.6	.9	.65	.5	
Maximum Incoming Air Temperature					45	°C
Maximum Glass Temperature					180	°C

*Maximum peak plate current and maximum average plate current of 75 and .7 amperes respectively are rated under conditions of filament excitation voltage of 13.75 volts.

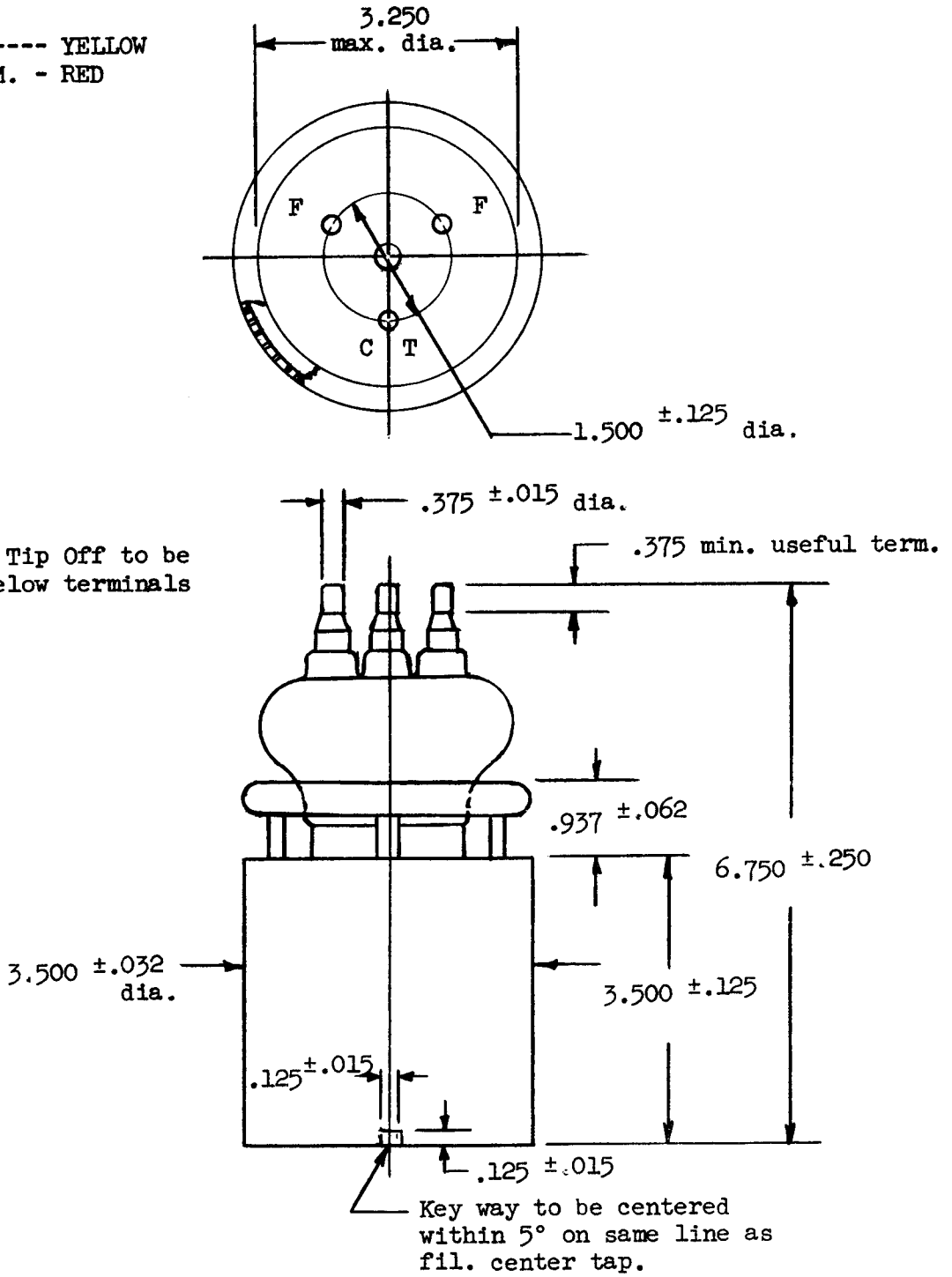
ITT COMPONENTS DIVISION
INTERNATIONAL TELEPHONE AND TELEGRAPH CORPORATION
P. O. BOX 412, CLIFTON, NEW JERSEY

TYPE F-7030 POWER DIODE
PLATE CHARACTERISTICS



COLOR CODE

FIL. TERM. ---- YELLOW
FIL. C. TERM. - RED



OUTLINE
F-7030 POWER DIODE

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