



ELECTRON TUBE DIVISION

P.O. Box 100, Easton, Pennsylvania 18042

F-1123
PULSE
TRIODE

TENTATIVE SPECIFICATION

DESCRIPTION

The F-1123 is a three electrode tube designed for pulse applications. The grid is specially processed to inhibit secondary emission over a wide range of positive grid and plate voltages. The anode is capable of dissipating 90 kilowatts exclusive of filament power and cooling is accomplished by circulating water. The cathode is a thoriated tungsten filament.

ELECTRICAL

Filament Voltage	12.6	volts
Filament Current	285	amperes
Filament Cold Resistance	.006	ohm
Amplification Factor		
$I_b = 2$ amperes; $E_g = -50$ volts	25	
Direct Inter-Electrode Capacitance		
Grid-Plate	35	uuf
Grid-Filament	81	uuf
Plate-Filament	3.5	uuf

MECHANICAL

Mounting Position	Vertical, Anode Down			
Type of Cooling	Water and Forced Air			
Maximum Outgoing Water Temp.			70	$^{\circ}\text{C}$
Plate Dissipation	90	75	50	30 kilowatts
Water Flow	30	22	13	7 gpm
Water Jacket Pressure Drop	15	9	3	1.5 psi
Maximum Glass and Seal Temp.			180	$^{\circ}\text{C}$
Net Weight, Approx.			25	lbs.

F-1123
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MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

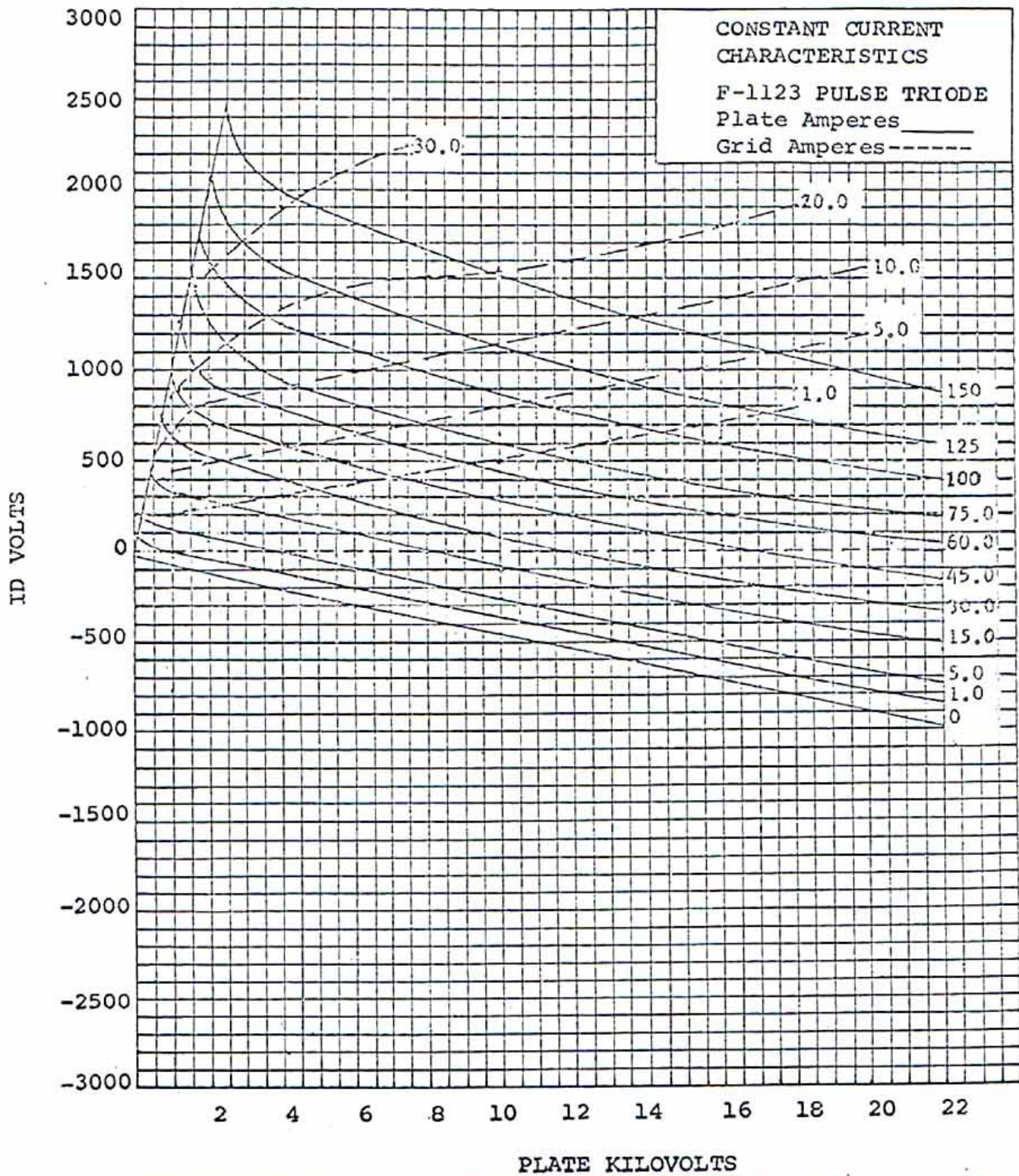
Maximum Ratings, Absolute Values

D-C Plate Voltage	75	max. kilovolts
Peak Positive Plate Voltage (Instantaneous)	80	max. kilovolts
D-C Grid Voltage	-5	max. kilovolts
Peak Positive Grid Voltage	5	max. kilovolts
Plate Dissipation	90	max. kilowatts
Grid Dissipation	1.5	max. kilowatts
Pulse Length	1000	max. usec.
Pulse Cathode Current*	275	max. amperes
Duty Factor	.01	max.

* For cathode currents in excess of 200 amperes, filament voltage of 13.6 volts is required.

Additional information for specific applications can be obtained from the:

ITT Electron Tube Division
P.O. Box 100
Easton, Pennsylvania

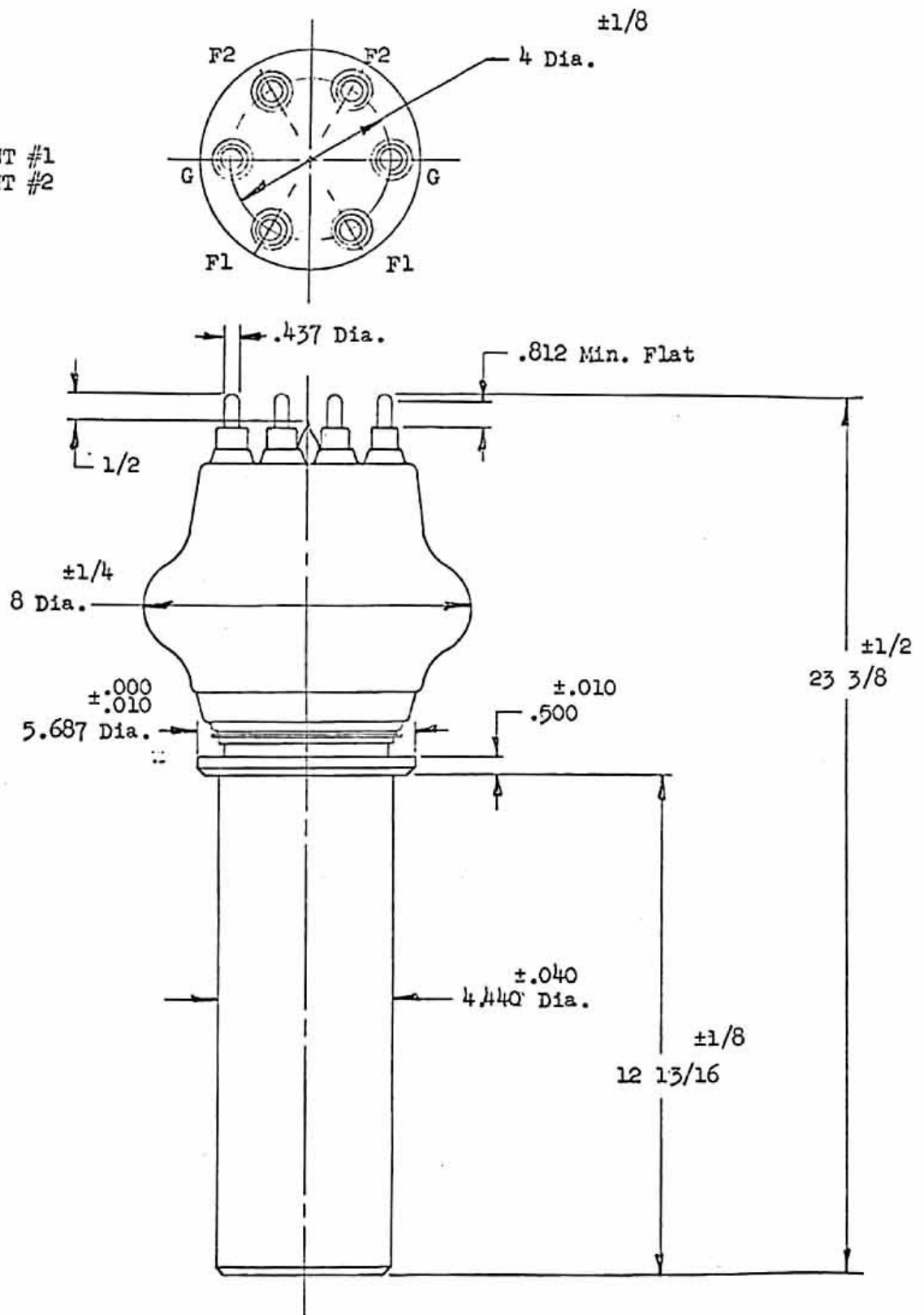


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ITT

TERMINALS

BLACK --- GRID
 YELLOW --- FILAMENT #1
 RED --- FILAMENT #2



OUTLINE
 F-1123 WATER COOLED
 PULSE TRIODE