

ITT ELECTRON TECHNOLOGY

P.O. Box 100
Easton, Pennsylvania 18044-0100
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F-1086 PULSE TRIODE

TENTATIVE SPECIFICATION

DESCRIPTION

The F-1086 is a three electrode tube designed for pulse applications. The anode is capable of dissipating 90 kilowatts exclusive of filament power. Cooling is accomplished by circulating water on the anode. The cathode is a thoriated tungsten filament.

Electrical

Filament Voltage	12.6 Volts
Filament Current	285 Amperes
Filament Starting Current	
Full rated current may be safely applied to the cold filament	
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
Max. Outgoing Water Temperature	70°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
Max. Glass and Seal Temperature	180°C
Net Weight, Approx.	25 Lbs.

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MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

Maximum Ratings, Absolute Values

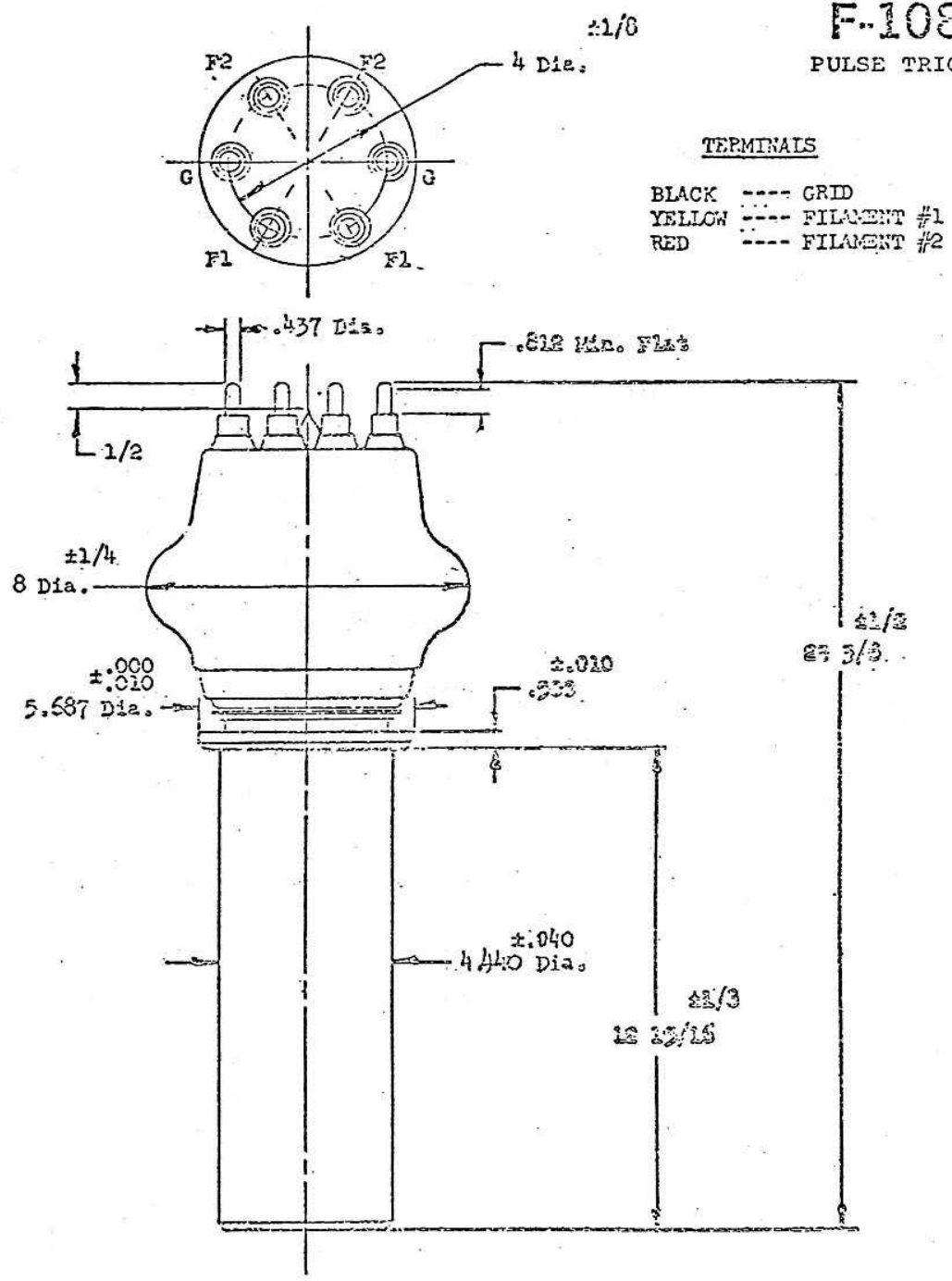
D-C Plate Voltage	75 Max. Kilovolts
Peak Positive Plate Voltage (instantaneous)	80 Max. Kilovolts
D-C Grid Voltage	-5 Max. Kilovolts
Peak Positive Grid Voltage	5 Max. Kilovolts
Plate Dissipation	90 Max. Kilowatts
Grid Dissipation	1.5 Max. Kilowatts
Pulse Length	1000 Max. usec.
Pulse Cathode Current	275 Max. Amperes
Duty Factor	.01 Max.

Additional information for specific applications can be obtained from:

ITT Electron Tube Division
Applications Section
P. O. Box 100
Easton, Pennsylvania 18042

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