

ITT ELECTRON
TECHNOLOGY
P.O. Box 100
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F-7C23

POWER TRIODE

DESCRIPTION:

The F-7C23 is a three-electrode tube designed for use in high voltage pulse operation. The anode is forced air-cooled and capable of dissipating 1,200 watts. The cathode is a thoriated tungsten filament. Maximum ratings apply up to 5 megacycles.

GENERAL CHARACTERISTICS:

Electrical

Filament Voltage	11.0 Volts
Filament Current	29.0 Amperes
Filament Starting Current	58 Amperes
Amplification Factor, at $E_c = -50V$; $I_b = 0.2$ amp.	25
Interelectrode Capacitances	
Grid-Plate	12.0 uuf
Grid-Filament	12.5 uuf
Plate-Filament	1.7 uuf

Mechanical

Mounting Position	Vertical, Anode Down
Type of Cooling - Forced Air Maximum Incoming Air Temperature	45° Centigrade
Required Air Flow on Anode Cubic Feet Per Minute	75
Required Air Flow on Anode Maximum Glass Temperature	150° Centigrade
Net Weight, Approximate	5½ Pounds

MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

RADIO-FREQUENCY POWER AMPLIFIER AND OSCILLATOR - PULSED OPERATION

Maximum Ratings, Absolute Values:

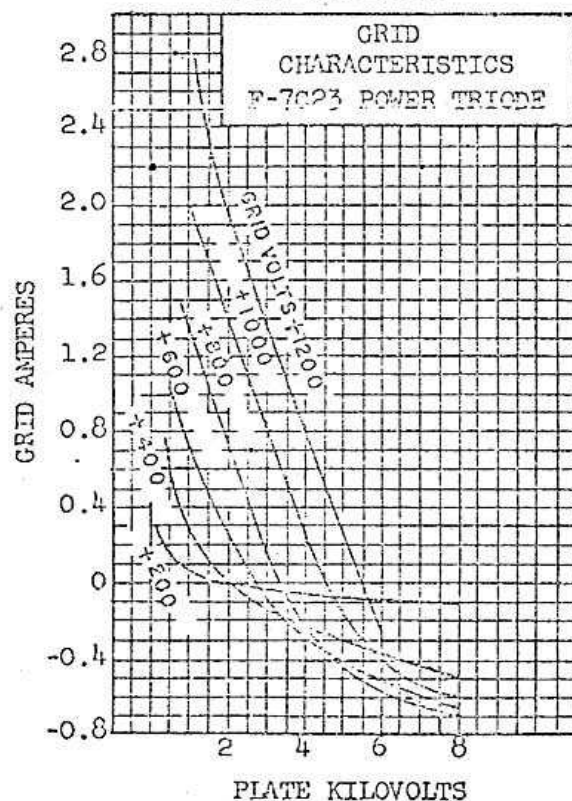
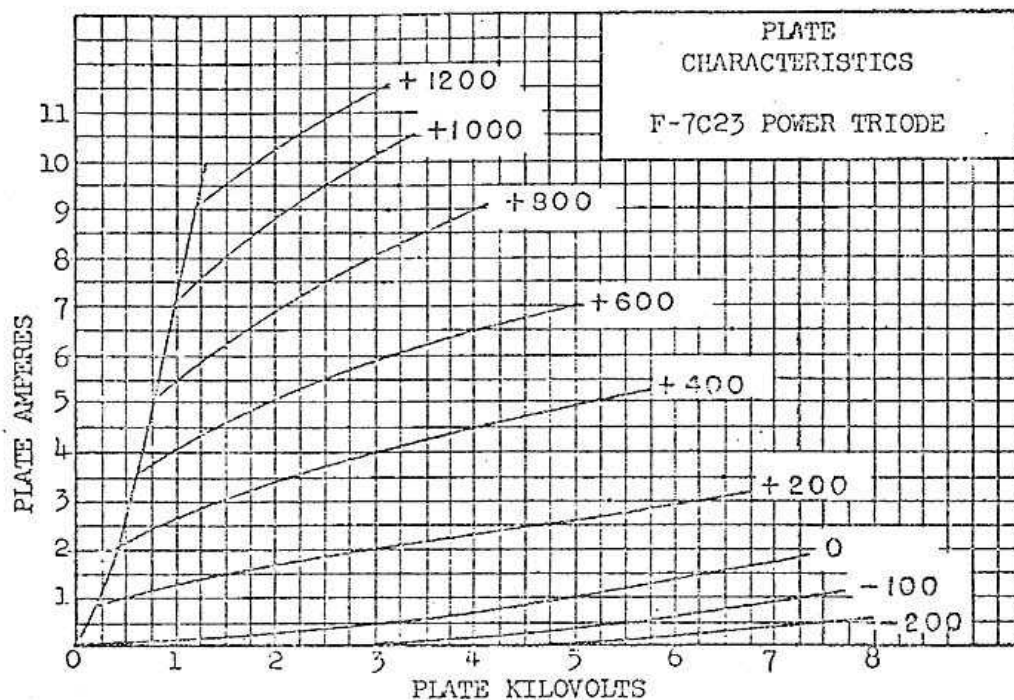
DC Plate Voltage	17,500	Volts
DC Grid Voltage	-2,000	Volts
DC Plate Current	0.100	Amperes
DC Grid Current	0.010	Amperes
Plate Dissipation	1,200	Watts
Max. Pulse Width	90	useconds
Max. Duty	0.005	

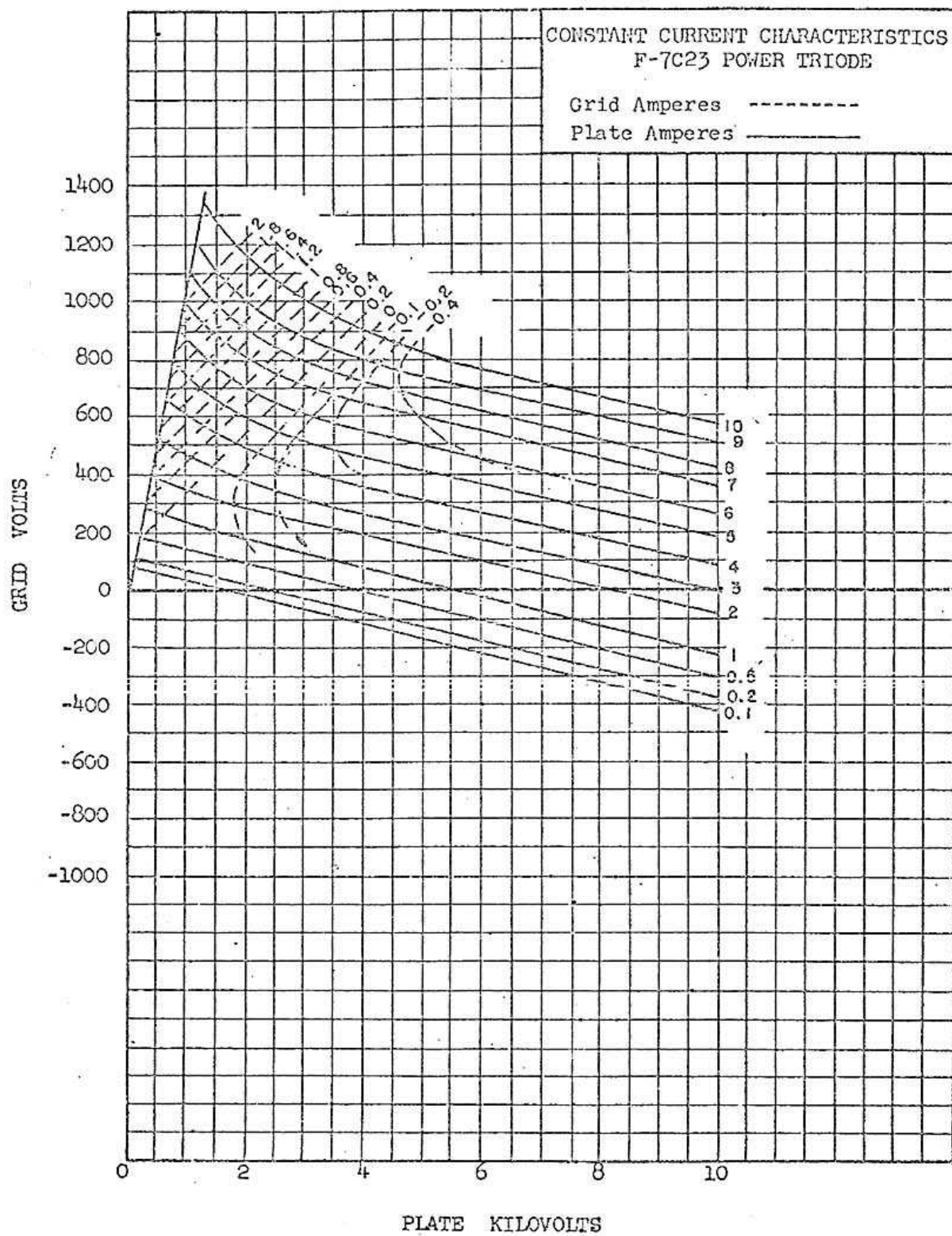
ELECTRON TECHNOLOGY DIVISION **ITT**

Typical Operations:

(Unless otherwise specified, values are for two tubes)

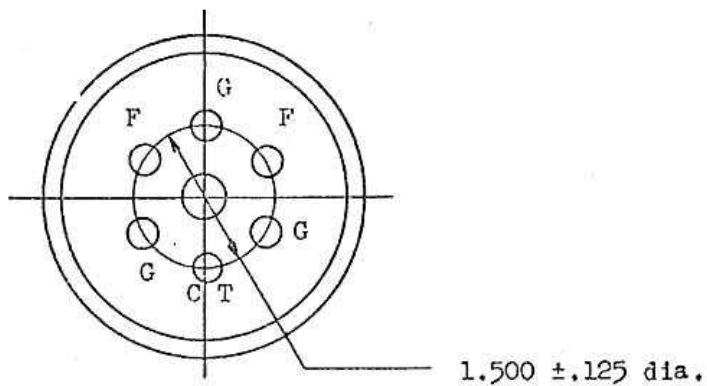
DC Plate Voltage	15,000	Volts
DC Plate Current	0.16	Amperes
DC Grid Current	1.25	Ma
Average Power Output	120	Watts
Peak Power Output	120	Kilowatts





Color Code

Fil. Term. - Yellow
 Fil. Center Term. - Red
 Grid Term. - Black



Tubulation tip off $\frac{1}{8}$ below
 top of terminals.

