

Federal Telecommunication Laboratories, Inc.

67 BROAD STREET

NEW YORK 4, N. Y.

TYPE 8C23

The 8C23 is a 3 electrode tube designed for use as a UHF pulse oscillator. The anode is forced-air-cooled and is capable of dissipating 1 kilowatt. The cathode is a thoriated-tungsten filament. Maximum ratings apply up to 600 megacycles.

<u>Electrical Data</u>	<u>Min.</u>	<u>Bogev</u>	<u>Max.</u>	
Filament Voltage		4.1		volts
Filament Current	296	320	344	amperes
Filament Starting Current			480	amperes
Filament Cold Resistance		.0017		ohms.
Amplification Factor at $I_b = 28.0$ amp. $E_c = -100$	7	9	11	

Interelectrode Capacitances

Grid-Plate	11.7	13.7	15.8	uuf
Grid-Filament	19.4	23.7	27.9	uuf
Plate-Filament	1.05	1.57	2.08	uuf

Mechanical Data

Mounting Position-Vertical				
Type of Cooling-Forced-Air				
Maximum Incoming Air Temperature				45°C
Required Air Flow on Anode				
Plate Dissipation-Kilowatts	1.0	0.8	0.6	
Air Flow-Cubic Feet per Minute	55	45	40	
Pressure-Inches Water	2.7	1.8	1.4	
Required Air Flow on Bulb or Stem (1)	15			CFM
Maximum Glass Temperature (Anode Seal)			200°	C
Net Weight, approximate			7.0	pounds

- (1) May be obtained by directing approximately 15 cubic feet per minute across stem by the use of a suitable blower.

Maximum Ratings

Plate-Modulated Class C Pulse Oscillator

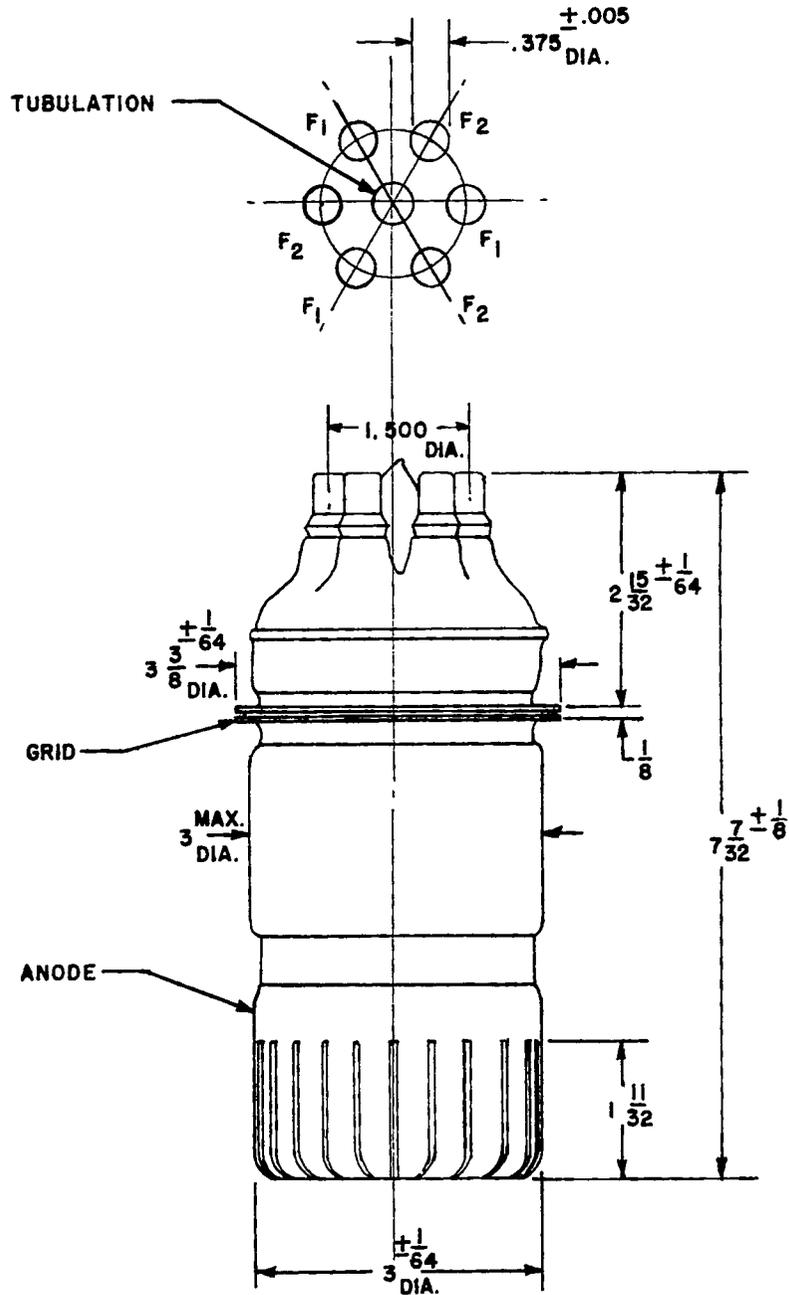
D-C Plate Voltage	21000	max.	volts
D-C Grid Voltage	4000	max.	volts
D-C Plate Current (during pulse)	50	max.	amps.
D-C Plate Current	25	max.	ma.
D-C Grid Current	10	max.	ma.
Average Power Input	525	max.	watts
Plate Dissipation	500	max.	watts
Duty Cycle	.05	max.	%
Pulse Duration	5	max.	u sec.



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