

Federal Telecommunication Laboratories, Inc.

67 BROAD STREET

NEW YORK 4, N. Y.

TYPE 6C23

The 6C23 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 of the indirectly-heated, oxide-coated type. Maximum ratings apply up to 600 megacycles.

<u>Electrical Data</u>	<u>Min.</u>	<u>Bogey</u>	<u>Max.</u>	
Heater Voltage		7.0		volts
Heater Current	24	26	28	amperes
Heater Starting Current			40	amperes
Heater Cold Resistance		.027		ohms.
Amplification Factor at $I_b = 18.0$ amp.	12	14	16	
$E_c = -50$ volts				

Interelectrode Capacitances

Grid-Plate	18.2	21.4	24.6	uuf
Grid-Cathode	30.1	36.4	42.9	uuf
Plate-Cathode	1.2	1.8	2.4	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	40	30	20	
Pressure-Inches Water	0.42	0.25	0.12	
Required Air Flow on Bulb or Stem (1)	5			CFM
Maximum Glass Temperature (Anode Seal)			200°	C
Net Weight, approximate			6.75	pounds

(1) May be obtained by deflecting a portion of the anode cooling air stream.

Maximum Ratings

Plate-Modulated Class C Pulse Oscillator

D-C Plate Voltage	15000	max.	volts
D-C Grid Voltage	2000	max.	volts
D-C Plate Current (during pulse)	100	max.	amperes
D-C Grid Current	0.01	max.	amperes
D-C Plate Current	0.1	max.	amperes
Average Power Input	1500	max.	watts
Plate Dissipation	1000	max.	watts
Duty Cycle	0.1	max.	%
Pulse Duration	10	max.	u sec.



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