

**DESCRIPTION: CW FIXED TUNED OSCILLATOR
TYPE 5794**

Pencil tube type 5794, designed for continuous wave operation, oscillates inside a cavity tuned to a fixed frequency of 1680 mc. This low Mu tube with its special heater at 5.2V is capable of delivering a power of 300 mw.



ELECTRICAL RATINGS

Heater Voltage	5.2 mAdc
Heater Current	146 mAdc
Max. Operation Frequency	1700 mc.
Max. Glass-to-Metal Seal Temp.	175°C

TUBE CHARACTERISTICS

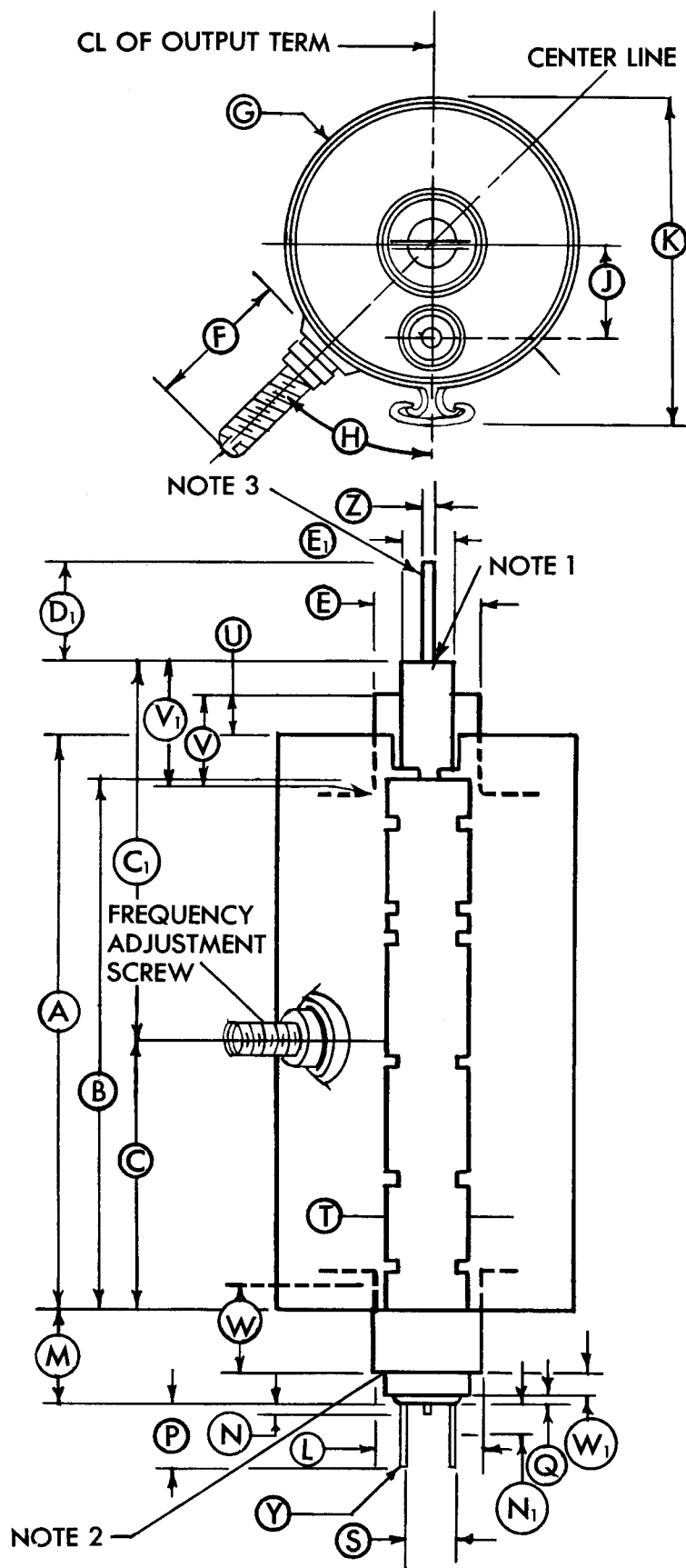
Heater Voltage	5.2 mAdc
Heater Current	146 mA
Oscillation Plate Current*	34 mAdcmax.
Power Oscillation**	300 mW min.

*Ef = 6.6V	**Eb = 95Vdc
Eb = 117Vdc	Rg/Ib = 24 mAdc
	ZL = 50 ohms
	F = 1670±4mc

TYPICAL OPERATING CONDITIONS

Plate Voltage	95 V
Oscillation Plate Current	24 mAdc
(Adjust Cathode resistor for Plate Current)	
Power Output at 1700 mc	300 mW

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REF.	DIMENSIONS
A	1.730 max.
B	1.585 max.
C	.797 $\pm$.010
C ₁	1.016 $\pm$.188
D ₁	.283 $\pm$.062
E	.305 $\pm$.010 O.D. Anode Terminal
E ₁	.151 $\pm$.003 O.D. Coaxial Output R F Terminal
F	.425 max.
G	.865 $\pm$.015 O.D. Grid Terminal
H	45° $\pm$ 7°
J	.275 $\pm$.005 Cavity Center To Eyelet
K	.980 max.
L	.305 $\pm$.010 O.D. Cathode Terminal
M	.400 max.
N	.040 max.
N ₁	.080 max. Untinned
P	.220 $\pm$.020
Q	.025
S	.115 $\pm$.040 Heater Terminal Tips
T	.270 max.
U	.250 max.
V	.200 min.
V ₁	.325 min.
W	.200 min.
W ₁	.150 max.
Y	.016 $\begin{smallmatrix} +.002 \\ -.001 \end{smallmatrix}$ Dia.
Z	.040 $\pm$.001 O.D.