

RADIO MANUFACTURERS ASSOCIATION

SUITE 701-4 AMERICAN BUILDING
1317 F STREET, N.W.
WASHINGTON, D. C.



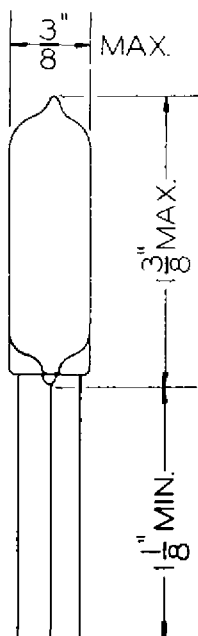
R.M.A. DATA BUREAU
90 West Street
New York, N. Y.

TYPE 5800**

Release No. 719

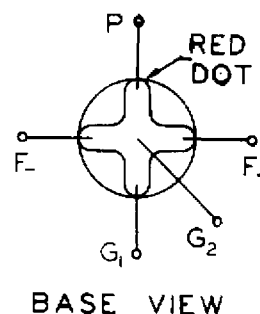
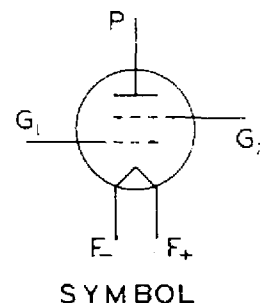
December 10, 1948

Sponsor: Victoreen Instrument Co.



ELECTROMETER TETRODE

The 5800 is a low filament power subminiature tetrode designed specifically for electrometer applications. It has been treated inside and outside to provide maximum resistance between electrode and absolute minimum control grid (G2) current when connected as an electrometer.



The cathode has been designed to provide long time stability in dc amplifier applications. For optimum results as an electrometer the tube and input circuit should be electrostatically shielded and enclosed in a light-tight compartment to reduce grid current due to photo-electric effects. For minimum emission drift, the filament voltage should be applied a second before positive voltage is applied to any other electrode and the positive voltage should be removed before the filament cools.

CHARACTERISTICS

	Min.	Nominal	Max.
Filament current	9	10	13 ma
Filament resistance	112	125	137 ohms
Total cathode current	-	250	- ua
Positive voltage on any electrode	-	-	25 volts
Capacitance: Grid 1*	-	2	- uuf
Grid 2*	-	2	- uuf
Plate *	-	3	- uuf
Leakage resistance: Grid 1*	10 ¹⁴	-	- ohms
Grid 2*	10 ¹⁵	-	- ohms
Plate *	10 ¹⁴	-	- ohms
Plate current - accelerator grid connection ($I_f = 10$ ma; $I_{c1} =$			
250 ua; $E_b = 4.5$ v; $E_{c2} = -3$ v)	6	12	18 ua

* To all other electrode in parallel.

** (VX-41A)