The CK5884 is a subminiature space-charge grid electrometer tube employing dual control grids and dual anodes designed primarily for use in balanced circuits for the measurement of extremely low current values.

**MECHANICAL DATA**

**ENVELOPE:** T-2 X 3 Glass  
**BASE:** Pinch Press (0.016" dia. tinned flexible leads.  
Length: 1.5" min. *  
Spacing: 0.048" center-to-center.)

**TERMINAL CONNECTIONS:** (Red Dot is adjacent to lead 1)  
Lead 1 Plate, Unit #2  
Lead 2 Control Grid, Unit #2  
Lead 3 Filament, Positive  
Top Lead Control Grid, Unit #1  
Lead 4 Space Charge Grid  
Lead 5 Plate, Unit #1  
Lead 6 Filament, Negative

**MOUNTING POSITION:** Any

**ELECTRICAL DATA**

**RATINGS - ABSOLUTE MAXIMUM VALUES:**

- Filament Voltages (dc)  
- Plate Voltage  
- Space Charge Grid Current  
- Cathode Current

- 1.25 ± 20% volts  
- 25 volts  
- 275 μA d.c.  
- 500 μA d.c.

**CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER:**

- Filament Voltage (dc)  
- Filament Current  
- Plate Voltage  
- Space-Charge Grid Current  
- Control Grid Voltage  
- Plate Current, per Plate  
- Amplification Factor, each Unit  
- Transconductance, each unit  
- Grid Current (Nominal)

- 1.25 volts  
- 10 mA.  
- 100 volts  
- 100 μA.  
- 105  
- 23 mhos  
- 1 x 10.14 amp.

**OPERATION:**

For operation at low current levels, top grid lead should be used as input grid. Envelope should be cleaned with methyl alcohol and allowed to dry thoroughly after which care should be taken to avoid contamination of the bulb by dirt or fingerprints. For best stability the tube should be operated in an electrostatic shield, and a dark enclosure to minimize photo-electron emission from the control grid and should be operated for a sufficiently long stabilizing period.

* Excepting Top Lead which is 0.375" min. from top of bulb.

These data identify a particular developmental tube design and the tube designation or the descriptive data may be subject to change or abandonment.

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AVERAGE PLATE CHARACTERISTICS

Conditions:
E1 = 1.25 Vdc
Eb, side 1 = Eb, side 2
Ee1/he1 = 100 μAdc

Plate Current - Microamperes

Plate Voltage - Volts