WL-6794

The WL-6794 is a special triode designed for ionization gauge service. It can be used to measure pressures in the range from 10⁻³ mm Hg to 10⁻¹⁰ mm Hg. The cathode is a pure tungsten filament. This type is electrically interchangeable with electron tube type 5966.

GENERAL DATA

Electrical:
- Filament Voltage* ............. 6 vac or vdc
- Filament Current .............. 2.5 amps
- Ion Collector Voltage .......... -100 max., volts
- Grid Voltage .................. +500 max., volts

Mechanical:
- Type of Cooling ............... Air
- Max. Operating Temperature .... 100° centigrade
- Bulb Glass .................. Nonex-code 7720
- Tubulation Glass ............. Pyrex-code 7740
- Operating Position .......... Vertical

TYPICAL OPERATION
- Ion Collector Voltage .......... -30 volts
- Grid Voltage .................. +150 volts
- Grid Current ................. 10 ma.
- Sensitivity .................. 1 μamp/10⁻⁵ mm Hg

CONDITIONS FOR OUTGASSING
- Grid Voltage .................. +500 max., volts
- Ion Collector .................. Tied to Grid
- Filament**
  - Series Connection .......... 15 max., volts
  - Parallel Connection ......... 7.5 max., volts
- Outgas Power .............. 100 max., watts

NOTES

* Two filaments are supplied, one of which is a spare.
** To outgas the gauge, the two filaments may be connected either in series or parallel. Connect the ion collector to grid and attach to +500 volts dc. Adjust emission current by raising filament voltage to give the desired operating condition to outgas the elements.
Pin 1 - Filament No. 1
Pin 2 - Filament No. 2
Pin 3 - Grid
Pin 4 - No Connection
Pin 5 - Filament No. 2
Pin 6 - Filament No. 2
Pin 7 - Grid
Pin 8 - Anode
Note 1: The tube pins shall be capable of entering gage A3-1P-6794-T1B for a distance of 3/8 in.

2: Grid pins must not exceed more than 3° out of parallel with bulb sides.