



ELECTRONIC TUBE REFERENCE

6794

Specialized - Gauge Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
GAUGE

Westinghouse WL-6794 hot-cathode ionization vacuum gauge electrically interchangeable with 5966, with dual tungsten filaments and measurement to ultra-high vacuum.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6 V / 2.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Gauge

No fixed ratings recorded.

Westinghouse WL-6794 hot-cathode ionization gauge, electrically interchangeable with 5966, not a conventional triode. NO conventional plate; former max_plate_voltage 500 V was GRID maximum and is cleared. Max grid +500 V, ion collector -100 V, typical grid +150 V, collector -30 V, grid current 10 mA, sensitivity 1 μ A per 10^{-5} mmHg. Filament 6 V 2.5 A tungsten, second spare filament. Outgassing: grid +500 V max, ion collector tied grid, filament series 15 V max or parallel 7.5 V max, outgas power 100 W max. Vertical mounting, max temp 100°C. Pin1/2 filament1, pin3/7 grid, pin4 NC, pin5/6 filament2, pin8 ion collector.

Special triode ionization-gauge tube for vacuum-pressure measurement from approximately 10^{-3} to 10^{-7} mm Hg.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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Published test conditions and operating points. Values on this page are preserved as reported by this source.

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Section 1 · Gauge

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6 V	Nominal
HeaterCurrentNominal	2.5 A	Nominal
MaximumPlateOrOperatingVoltage	500 V	—
IonCollectorVoltageMaximumMagnitude	100 V	—
TypicalIonCollectorVoltage	-30 V	—
TypicalGridVoltage	150 V	—