



ELECTRONIC TUBE REFERENCE

5966

Specialized - Gauge Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
GAUGE

Westinghouse 5966 hot-cathode ionization vacuum gauge with dual tungsten filaments (one spare), used for ultra-high-vacuum pressure measurement down to 10^{-10} mmHg.

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

SECTION 1 Gauge

No fixed ratings recorded.

Westinghouse 5966 hot-cathode ionization gauge, not an amplifier triode. NO conventional plate; prior max_plate voltage 4500 V erroneous and cleared. Maximum grid +500 V, ion collector -100 V, max gas pressure 10^{-3} mmHg, max ambient 100°C. Typical grid +150 V, ion collector -30 V, grid current 10 mA, sensitivity 1 μ A per 10^{-5} mmHg; pressure down to 10^{-10} mmHg. Direct tungsten filament 6 V 2.5 A; second spare filament. Outgassing only: grid/collector tied at +500 V max, filament series 15 V max or parallel 7.5 V max, outgassing power 100 W max. Gauge section represents one ionization-gauge structure, not a normal triode.

Special pure-tungsten-filament triode for ionization vacuum-gauge service.



SOURCE OPERATING CONDITIONS

SOURCE PDF

1947 Westinghouse

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

1947 WESTINGHOUSE

Section 1 · Gauge

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MinimumMeasurablePressure	1e-8 mmHg	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	IonizationVacuumGauge text	—

TUBE TINKER

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