

ELECTRONIC TUBE REFERENCE

7677

Specialized - Gauge Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
GAUGE

Thermocouple vacuum gauge using filament heating and gas-dependent thermal transfer, intended for roughly 1 to 10⁻² mm Hg pressure measurement.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / 25 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Gauge
No fixed ratings recorded. Source-derived physical/electrical section.

Westinghouse March 15,1961 THERMOCOUPLE VACUUM GAUGE TYPE 7677 The 7677 features a thermocouple heated by a filament, The internal gas pressure detennines the heat transfer characteristics and thereby the output of the thermocouple. The type 7677 is useful for pressure measureinents in the range from 1 to 10~2 millimeters of mercury. ELECTRICAL: OPERATIONAL: Thermocouple Materials Nichrome 8 Advance Heater Current. . . . oo v v o v v TR 25 Ma, Heater Resistance ϕt 25°C e e e 65 Chms Thermocouple Output: Thermocouple Resistance 0t 25°C ., ... 10 O4me At 0= mm Hg Pressure, « v v v o v e e e 0 mV¥. MECHANICAL: MOUNHIG POSTHION < o o v vt it vt v tn e s snnns Vertical Note: Other thermocouple gauge tubes, similar to type 7677 but Base. « .l it i i et et e JEDEC A4-9 having different sizes ond materiols of tubulation, ars Tubulation: available under different numbers, Diometar . . v i ittt i e s e e e e e, 3/8" Material ttt it e e, Nenex, C



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
Heater Resistance ϕt	65	Heater Resistance ϕt 25°C e e e 65 Chms Thermocouple Output:
Thermocouple Resistance	0	Thermocouple Resistance 0t 25°C ., ... 10 04me At 0= mm Hg Pressure, « v v v o v e e e e 0 mV¥.

TUBE TINKER

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