ELECTRONIC TUBE REFERENCE

10G18

Specialized - Gauge Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
GAUGE

Glass-envelope Bayard-Alpert ionization gauge head designed for ultra-high-vacuum pressure measurement.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	_ / _	**PARALLEL HEATER**	_ / _
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Gauge

No fixed ratings recorded.

Bayard-Alpert ionization-gauge section; gauge-specific pressure, sensitivity, emission and insulation data retained as parameters.

Bayard-Alpert ultra-high-vacuum ionization gauge head with glass envelope. Published ratings, characteristics, operating data, capacitances, microwave/noise data, or gauge-head data were retained according to the physical device and mapped only to compatible locked-schema fields.

SOURCE OPERATING CONDITIONS

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Gauge

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pressure range	**4e-11–0.001 torr**	—
Sensitivity for nitrogen	**12 per torr**	—
Emission current minimum	**1 uA**	—
Collector insulation resistance minimum	**100000000000000 ohm**	—
Grid insulation resistance minimum	**1000000000000 ohm**	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Emission current maximum	**50 mA**	—
Maximum filament voltage	**8 V**	—
Maximum bake-out temperature	**450 degC**	—
Maximum grid input power	**30 W**	—

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament material	**Tungsten**	—

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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