

ELECTRONIC TUBE REFERENCE

R1111

Specialized - Gauge Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

GAUGE

Hot-filament Pirani vacuum gauge tube designed for rough-vacuum measurement from approximately 1 to 1000 microns and for vacuum-system leak detection.

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.
Published ratings and characteristics promoted semantically from the approved source.

The Sylvania R1111 is a hot-filament Pirani tube for measuring vacuum pressure from roughly 1 to 1000 microns and for leak detection.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Gauge

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Resistance	16.25 ohm	Approximate midpoint of published 15.5-17.0 ohm range

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Calibration Current	100 mA	Pirani bridge measurement



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Gauge

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cold Filament Resistance	6.6 ohm	—
Hot Filament Resistance Minimum	15.5 ohm	Evacuated; Current=100mA
Hot Filament Resistance Maximum	17 ohm	Evacuated; Current=100mA
Useful Pressure Minimum	1 micron	—
Useful Pressure Maximum	1000 micron	—
Measurement Precision	5 percent	Approximate

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating Voltage	1.5 V	—
Filament Operating Current	100 mA	—