



1949

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VACUUM-GAUGE TUBE

HARD-GLASS BULB, IONIZATION TYPE

DATA**General:**

Filament, Tungsten:*

Voltage (Approx.) 5 ac or dc volts

Current (Approx.) 3.5 amp

Maximum Tube Length (including tubulation) 11-1/2"

Maximum Tube Radius 2-3/16"

Maximum Bulb Length 5-1/8"

Maximum Bulb Diameter 2-1/16"

Bulb T-16

Tubulation 1/2" Diameter Hard Glass,
Corning Code 772 NonexOperating Position Vertical with tubulation up or
down; Horizontal, with stem
press in vertical plane

Terminal Arrangement See Outline Drawing

Terminal Lead Connections:

Lead 1 - Common

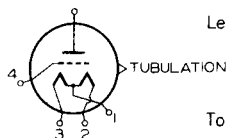
Lead to

Filaments

Lead 2 - Filament

Lead 3 - Filament

(Spare)



Lead 4 - Grid

Top Lead - Plate

Maximum Ratings, Absolute Values:

PLATE VOLTAGE -100 max. volts

GRID VOLTAGE +200 max. volts

AMBIENT TEMPERATURE 100 max. °C

GAS PRESSURE 0.001 max. mm of Hg.

Typical Operation:

Plate Voltage -22.5 -22.5 -22.5 volts

Grid Voltage +80 +110 +160 volts

Grid Current 10 10 10 ma.

Sensitivity 80 110 140 μ amp/micron[▲]**Calibration:**

See curve on following sheet.

* The 1949 contains two filaments, one of which is a spare. Values shown are for either filament operated alone.

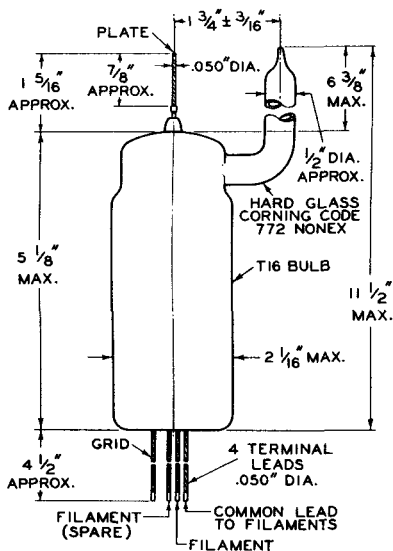
▲ 1 micron = 0.001 mm of mercury.

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VACUUM-GAUGE TUBE



92CS-6817

JUNE 20, 1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

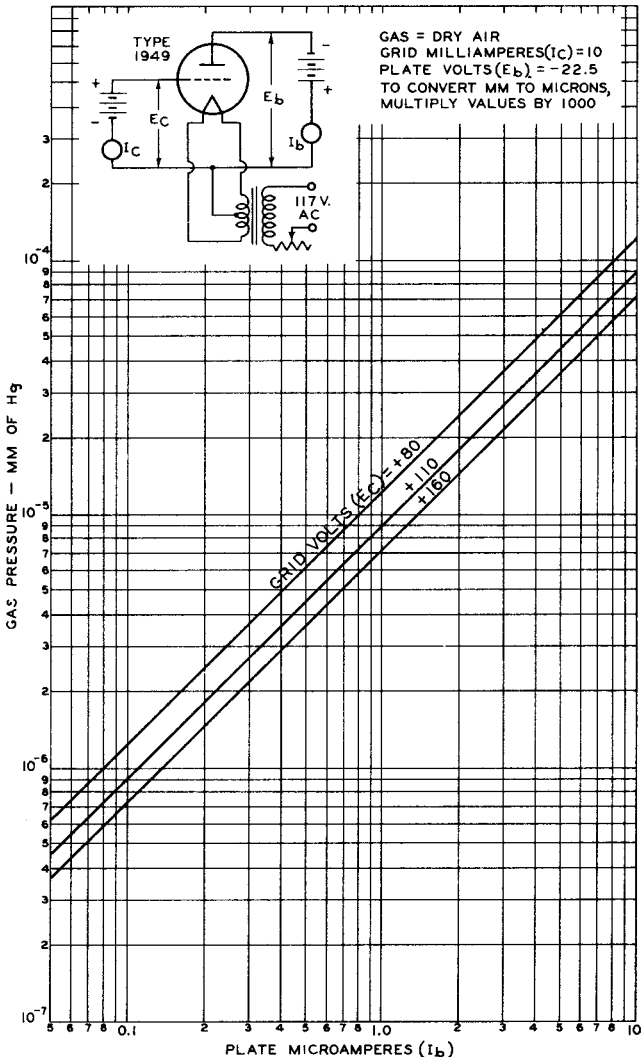
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CALIBRATION CURVES



MAR. 11, 1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6851



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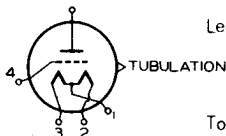
Bulb T-16

Tubulation 1/2" Diameter Hard Glass,
Corning Code 772 NonexOperating Position Vertical with tubulation up or
down; Horizontal, with stem
press in vertical plane

Terminal Arrangement See Outline Drawing

Terminal Lead Connections:

Lead 1 - Common
Lead to
Filaments
Lead 2 - Filament
Lead 3 - Filament
(Spare)



Lead 4 - Grid

Top Lead - Plate

Maximum Ratings, Absolute Values:

FILAMENT VOLTAGE 6.5 max. volts

DC PLATE VOLTAGE DURING OPERATION . . -100 max. volts

DC GRID VOLTAGE DURING OPERATION . . +200 max. volts

VOLTAGE ON GRID & PLATE TIED TOGETHER
DURING DEGASSING (DC OR PEAK AC) 650 max. voltsGRID & PLATE DISSIPATION (TOTAL)
DURING DEGASSING . . 150 max. watts

AMBIENT TEMPERATURE DURING OPERATION. 100 max. °C

GAS PRESSURE 0.001 max. mm of Hg

Typical Degassing Conditions:*Grid Connected to Plate*

Filament Voltage (AC or DC) . . . 6 6 volts

Grid & Plate Voltage 350 rms 500 dc volts

Grid & Plate
Current (Average) 100 150 ma**Typical Operation:**

DC Plate Voltage -22.5 -22.5 -22.5 volts

* The 1949 contains two filaments, one of which is a spare. Values shown are for either filament operated alone. The filament voltage should be kept as low as possible during degassing because use of a low filament voltage materially increases filament life.

← indicates a change

MARCH 1, 1954

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DATA

1949



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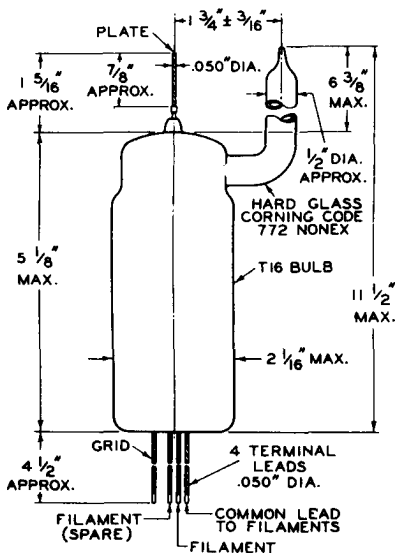
VACUUM-GAUGE TUBE

DC Grid Voltage	+80	+110	+160	volts
Grid Current	10	10	10	ma
Sensitivity	80	110	140	$\mu\text{a}/\text{micron}^\Delta$

Calibration:

See curve on following sheet.

$^\Delta$ 1 micron = 0.001 mm of mercury.



92CS-6817

MARCH 1, 1954

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DATA