



1949

1949

# VACUUM-GAUGE TUBE

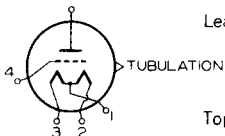
HARD-GLASS BULB, IONIZATION TYPE

## 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 Nonex  
 Operating 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	. . . μamp/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.

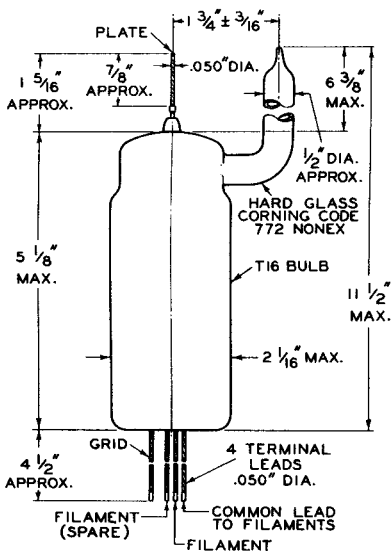
▲ 1 micron = 0.001 mm of mercury.

1949



1949

## VACUUM-GAUGE TUBE



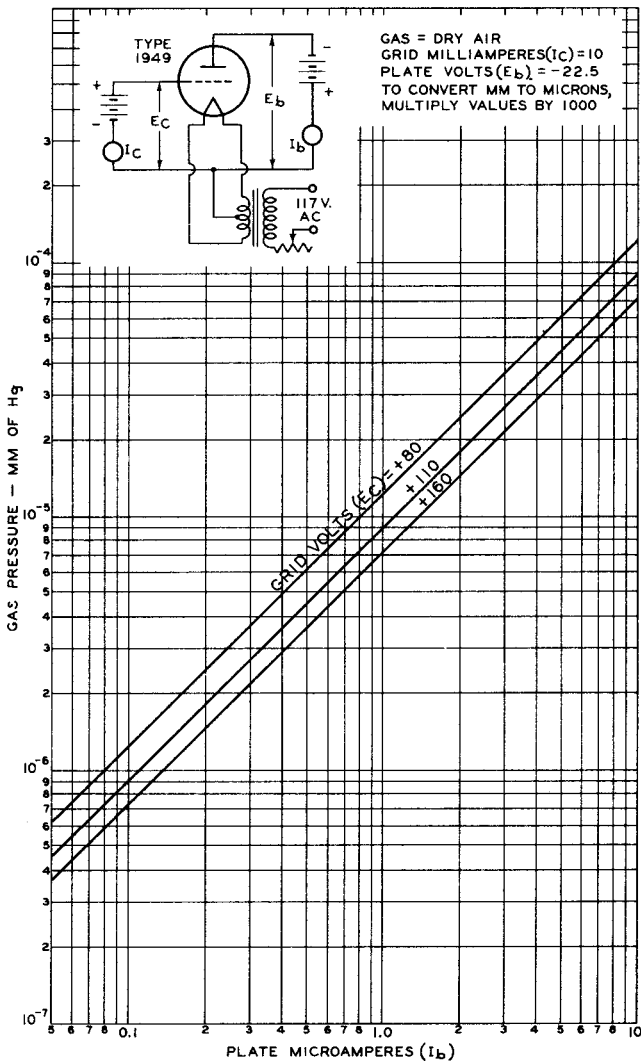
92CS-6817



1949

1949

### CALIBRATION CURVES





1949

1949

# VACUUM-GAUGE TUBE

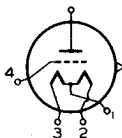
HARD-GLASS BULB, IONIZATION TYPE

## 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 Nonex  
 Operating 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.	volts	
GRID & 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

1949



1949

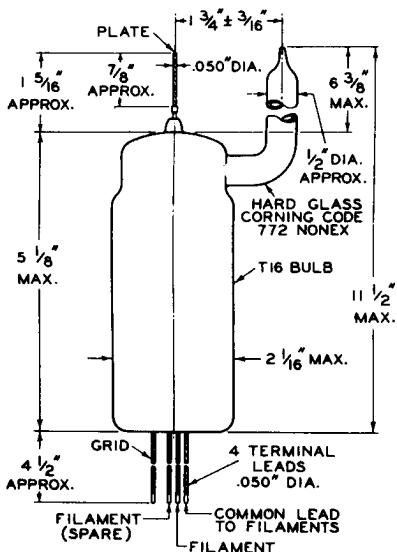
## VACUUM-GAUGE TUBE

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

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA