1947

VACUUM-GAUGE TUBE

PIRANI TYPE

DATA

General:

Filament, Platinum Iridium:
Voltage (Approx.)... 10 ............... dc volts
Current (Varies with
Gas Pressure)... 70 - 100 .............. ma.
Resistance between base
pins No.1 & No.2 un-
der vacuum better than
3 x 10^-5 mm of mercury 135.8 .............. ohms
Maximum Overall Length (including tubulation)... 7-9/16"
Maximum Diameter ................................ 1-3/16"
Bulb .................................................. T-9
Tubulation .......................................... 7/32" Diameter Soft Glass,
Corning Code 001 Lead
Mounting Position .................................. Any
Base ............................................. Small-Shell Small 4-Pin

BOTTOM VIEW

Pin 1 - Filament
Pin 2 - Filament
Pin 3 - No Connection
Pin 4 - Internal
Connection -
Do Not Use

R-Series Filament-
Calibrating
Resistor in
base of tube

Maximum Ratings, Absolute Values:
FILAMENT VOLTAGE ..................... 16 max. volts

Calibration for 1947 in Accompanying Circuit:
See curve on following sheet.

PIRANI GAUGE BRIDGE CIRCUIT

STEP 1: With switch S in position 2, adjust R2 so that
meter reads 2.5 milliamperes.

STEP 2: With switch S in position 1, and with dry air
at atmospheric pressure in the 1947, adjust R1
so that meter reads 5.0 milliamperes.

STEP 3: With no further adjustments and with switch S
in position 1, proceed to use gauge.

JUNE 20, 1947
TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
TENTATIVE DATA
VACUUM-GAUGE TUBE

SOFT GLASS
CORNING CODE
001 LEAD

1 3/16 MAX.

T9 BULB

SMALL-SHELL
SMALL 4-PIN
BASE

5 3/16
APPROX.

1 3/16 MAX.

7 9/16 MAX.

7/32 APPROX.

*MEASURED FROM END OF BASE PINS
TO BULB-TOP LINE AS DETERMINED
BY RING GAUGE OF 1/2" I.D.

92CS-6816
CALIBRATION CURVE
FOR USE WITH CIRCUIT ON DATA PAGE

GAS = DRY AIR
TO CONVERT MM TO MICRONS,
MULTIPLY VALUES BY 1000.

METER DEFLECTION - MILLIAMPERES

MARCH 10, 1947
TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6849