HIGH-VACUUM PHOTOTUBE
CARTRIDGE TYPE

Cathode: Semi-cylindrical
Photosurface: S2
Window Area: 0.4 sq. in.
Direct Interelectrode Capacitance: 0.5 μF
Overall Length: 1-21/32 ± 1/16”
Maximum Diameter: 15/16”
Bulb: Lime glass
Terminal Connections (see outline drawing): Special
Terminal Mounting: RCA Stock No. 9926
Mounting Position: Any

Maximum Ratings Are Absolute Values
MAXIMUM RATINGS and CHARACTERISTICS

Anode—Supply Voltage (D.C. or Peak A.C.) 500 max. volts
Anode Current*: 30 max. μamps.
Ambient Temperature: 100 max. °C
Luminous Sensitivity*: 20 μamps./lumen
Sensitivity at 8000 Angstroms: 0.0020 μamps./μwatt

D-C Resistance of Load:
With Anode-supply voltage of
250 volts 1 min. megohm
500 volts 10 min. megohms

* On the basis of the use of a sensitive cathode area 1/2" in diameter.
* Subject to variations as explained on sheet PHOTOTUBE SENSITIVITY MEASUREMENTS in the front of this section.

CURVES
for the 922 are the same as those for the 917.

Spectral Sensitivity Characteristic of S2 Photosurface in lime-glass bulb is shown at beginning of this section.

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Mar. 20, 1943

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
HIGH-VACUUM PHOTOTUBE

ANODE

CATHODE

DIRECTION OF LIGHT

1/8 DIA.

.890 MAX.

.375 ± .010

.375 ± .010

92C-4818R1

Indicates a change.

Mar. 20, 1943

RCA VICTOR DIVISION

CE-4818R1

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
VACUUM PHOTOTUBE
CARTRIDGE TYPE WITH S-1 RESPONSE
For relay applications

DATA

General:
Spectral Response ... S-1
Wavelength of Maximum Response ... 8000 ± 1000 angstroms
Cathode:
Shape ... Semicylindrical
Minimum projected length* ... 5/8"
Minimum projected width* ... 1/2"
Direct Interelectrode Capacitance ... 1 μuf
Overall Length ... 1-21/32" + 1/32" - 1/16"
Seated Length ... 1-13/32" ± 1/32"
Length from Center of Useful Cathode Area
to Plane A-A' (See Dimensional Outline) ... 11/16" ± 1/16"
Maximum Diameter ... 0.890"
Mounting Position ... Any
Weight (Approx.) ... 0.4 oz
Terminals:
Recessed cap. ... JETEC No.J1-23
Protruding cap ... JETEC No.J1-24
Basing Designation ... 2AQ

Maximum Ratings, Absolute Values:
ANODE-SUPPLY VOLTAGE (DC or Peak AC) ... 500 max. volts
AVERAGE CATHODE-CURRENT DENSITY° ... 30 max. μamp/sq.in.
AVERAGE CATHODE CURRENTDTV ... 5 max. μamp
AMBIENT TEMPERATURE ... 100 max. °C

Characteristics, At 250 Volts on Anode:

| Sensitivity: |
| Radiant, at |
| 8000 angstroms ... | 0.0018 μamp/μwatt |
| Luminous ... | 10 20 40 μamp/lumen |
| Anode Dark Current ... | 0.005 μamp |

* On plane perpendicular to indicated direction of incident light.
° Averaged over any interval of 30 seconds maximum.
TV For conditions where the light source is a tungsten-filament lamp operated at a color temperature of 2870°K. A dc anode supply of 250 volts, a 1-megohm load resistor, and a light input of 0.1 lumen are used.

Indicates a change.

10-56
TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
SPECTRAL-SENSITIVITY CHARACTERISTIC
of Phototube having S-1 Response
is shown at the front of this Section

AVERAGE ANODE CHARACTERISTICS
for Type 922 are the same as those shown for Type 917

A-A' = PLANE PERPENDICULAR
TO AXIS OF TUBE