

Vacuum Phototube

SIDE-ON TYPE HAVING S-5 RESPONSE

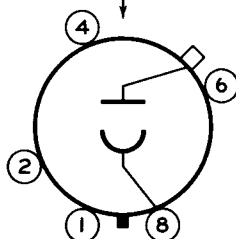
DATA

General:

Spectral Response.	S-5
Wavelength of Maximum Response	3400 ± 500 angstroms
Cathode:	
Shape.	Semicylindrical
Minimum projected length ^a	.1-5/16"
Minimum projected width ^a	5/8"
Direct Interelectrode Capacitance (Approx.).	0.6 μmf
Maximum Overall Length	4-1/4"
Seated Length.	3-9/16" $\pm$ 1/8"
Seated Length to Center of Cathode	2" $\pm$ 1/16"
Maximum Diameter	1-9/32"
Operating Position	Any
Weight (Approx.)	1 oz ←
Bulb	T9
Cap.	Skirted Miniature (JEDEC No.C1-3) ←
Socket	Cinch No.8JM-1, or equivalent ←
Base	Intermediate-Shell Octal 5-Pin, Arrangement 1 ← (JEDEC Group 1, No.B5-10)
Basing Designation for BOTTOM VIEW	1C

DIRECTION OF RADIATION

Pin 1—No Internal
Connection
Pin 2—No Internal
Connection
Pin 4—No Internal
Connection



Pin 6—No Internal
Connection
Pin 8—Photocathode
Cap—Anode

Maximum Ratings, Absolute-Maximum Values:

ANODE-SUPPLY VOLTAGE			
(DC or Peak AC).	250 max.	volts	
AVERAGE CATHODE-CURRENT DENSITY ^b	30 max.	$\mu\text{a/sq.in.}$	
AVERAGE CATHODE CURRENT ^b	10 max.	μa	
AMBIENT TEMPERATURE.	75 max.	$^{\circ}\text{C}$	

Characteristics:

With an anode-supply voltage of 250 volts

Min. Median Max.

Sensitivity:

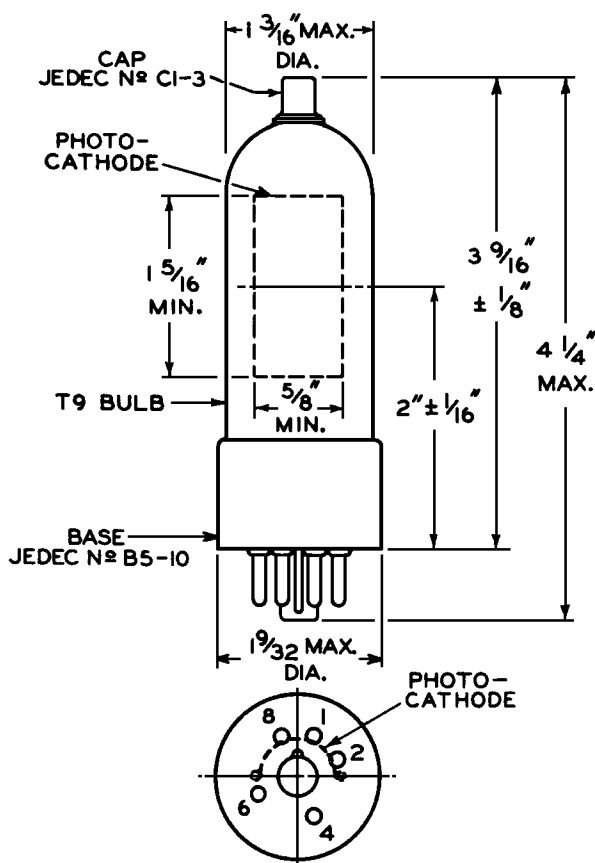
Radiant, at 3400 angstroms	—	0.043	—	amp/watt
Luminous ^c	18	35	70	$\mu\text{a/lumen}$
Anode Dark Current at 25 $^{\circ}$ C.	—	—	0.0005	μa

← Indicates a change.



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

**SPECTRAL-SENSITIVITY CHARACTERISTIC
 OF PHOTOSENSITIVE DEVICE HAVING S-5 RESPONSE
 is shown at the front of this section**



92CM-6411R5



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AVERAGE ANODE CHARACTERISTICS



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TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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