



PHOTOTUBE

DESCRIPTION

This two-electrode vacuum phototube is designed for use in photoelectric apparatus requiring reliable and accurate control. Although it will pass some current in the visible region, the PJ-22 is designed primarily for use in the red and infrared region of the spectrum. The tube is especially useful where a high degree of stability of characteristic is required and where it is desirable to have the output directly proportional to the light flux incident on the cathode.

TECHNICAL INFORMATION

These data are for reference only. For design information refer to specifications.

GENERAL CHARACTERISTICS

Number of electrodes 2

Electrical

Spectral response	S-1	
Luminous sensitivity at 90 volts, 0 cycles	20	microamperes per lumen
Maximum gas amplification	1.1	
Interelectrode capacitance	3.0	micromicrofarads
Maximum dark current at 90 volts	0.1	microampere
Wavelength of maximum response	7500	angstroms
Sensitivity at maximum response	0.0020	microampere per microwatt



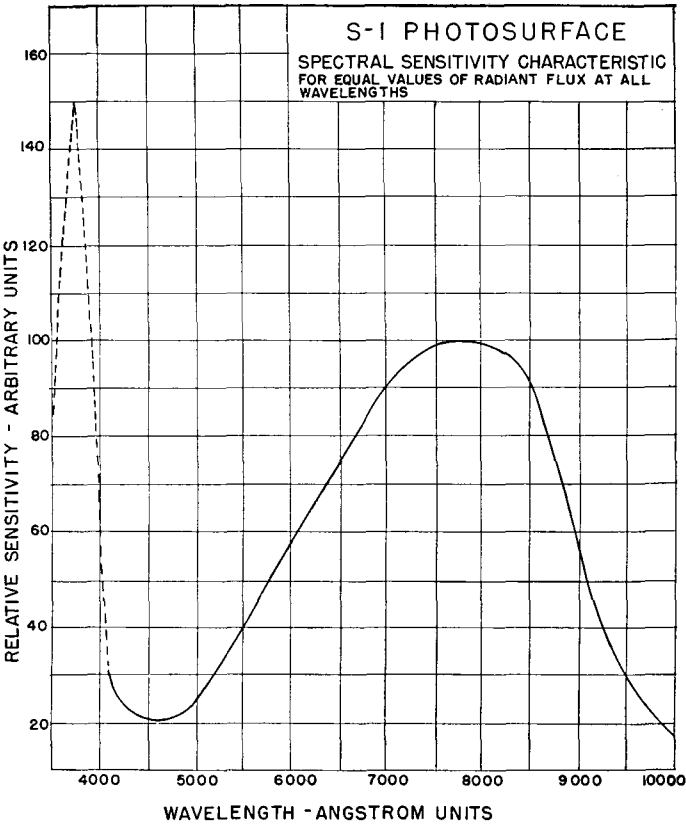
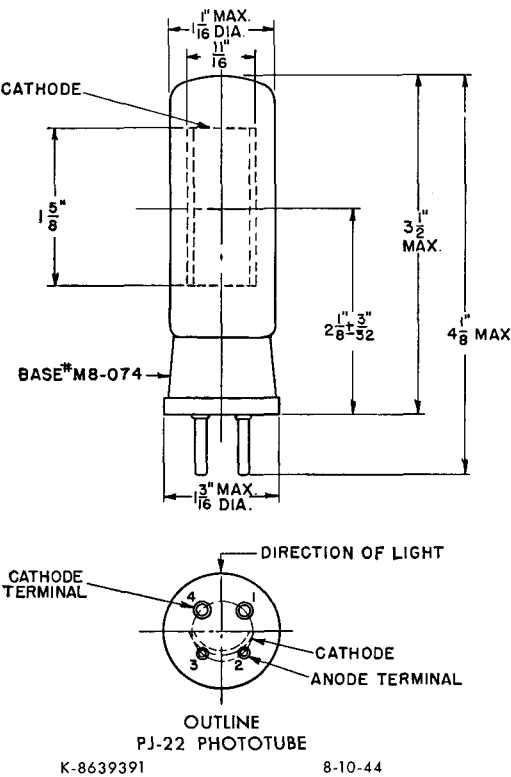
TECHNICAL INFORMATION (CONT'D)

Mechanical

Window dimensions	$\frac{11}{16} \times 1 \frac{5}{8}$ inches
Seated height to center of useful cathode area	$2 \frac{1}{8} \pm \frac{3}{32}$ inches
Maximum over-all height	$4 \frac{1}{8}$ inches
Maximum seated height	$3 \frac{1}{2}$ inches
Maximum diameter	$1 \frac{3}{16}$ inches
Base	M8-074
Mounting position	Any
Net weight, approx	$\frac{1}{2}$ ounce
Shipping weight, approx	3 pounds

MAXIMUM RATINGS

Anode voltage, d-c or peak a-c	500 volts
Cathode current density	152 microamperes per square inch
Ambient temperature	100 centigrade



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