DESCRIPTION

The GL-921 is a cartridge-type, two-electrode gas-filled phototube for relay- and light-measurement applications. It is highly sensitive to red and infrared radiation. The double-edged design, with a terminal at each end, provides a compact phototube useful in applications where space is restricted.

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 ................. 135 microamperes per lumen
Maximum gas amplification .................................. 10
Interelectrode capacitance .................................. 1.0 micromicrofarad
Maximum dark current at 90 volts ......................... 0.1 microampere
Wavelength of maximum response ......................... 8000 angstroms
Sensitivity at maximum response ......................... 0.013 microampere per microwatt

GENERAL ELECTRIC
TECHNICAL INFORMATION (CONT'D)

Mechanical
Window dimensions ........................................... 5/8 x 7/8 inches
Seated height to center of useful cathode area ............. 1 1/4 ± 1/4 inches
Maximum over-all height ..................................... 1 3/4 inches
Maximum seated height ....................................... 1 1/4 inches
Maximum diameter ............................................ 0.890 inch
Mounting position ........................................... Any
Net weight, approx ........................................... 1/4 ounce
Shipping weight, approx .................................... 3 pounds

MAXIMUM RATINGS
Anode voltage, d-c or peak a-c ................................ 90 volts
Cathode current density ...................................... 152 microamperes per square inch
Ambient temperature ........................................ 100 centigrade

S-1 PHOTOSURFACE
SPECTRAL SENSITIVITY CHARACTERISTIC
FOR EQUAL VALUES OF RADIANT FLUX AT ALL WAVELENGTHS

RELATIVE SENSITIVITY - ARBITRARY UNITS
WAVELENGTH - ANGSTROM UNITS

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