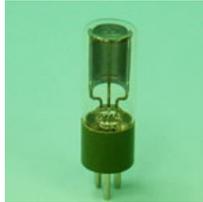


- ▶ Photosensitive Electron Tubes
  - ▶ Photomultiplier Tube and Related Product
  - ▶ Phototubes
    - ▶ Electron Multiplier Tubes
    - ▶ Flame Sensors (UV TRON)
    - ▶ MCP(Microchannel Plate)
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Exhibitions which Hamamatsu Photonics is planning to participate.

## Phototube

R518



Contact by E-mail Literature Price Quote Other

Specifications Dimensional/Characteristic Chart

### Specifications

Features	For UV to NIR
Type	General Phototube
Spectral Response (Short)	185 nm
Spectral Response (Long)	850 nm
Spectral Response (Peak)	400 nm
Tube Diameter	18 mm
Photocathode Effective Area (Min.)	10 x 15 mm
Photocathode Material	Multialkali
Input Window Type	Side-on
Window Material	UV glass
Maximum Ratings Anode Supply Voltage	250 Vdc
Maximum Ratings Peak Cathode Current	2 uA
Maximum Ratings Input Light Energy Density	
Maximum Ratings Average Cathode Current Density	1 uA/cm <sup>2</sup>
Maximum Ratings Average Cathode Current *a	0.5 uA
Ambient Temperature *b	-80 to+50 deg. C
Luminous Sensitivity (Typ.) *c	80 uA/lm
Radiant Sensitivity (Typ.) at 122 nm	
Radiant Sensitivity (Typ.) at 254 nm	
Radiant Sensitivity (Typ.) at Peak	40 mA/W
Dark Current (Max.) *d	50 pA
Rcommended Operating Voltage	40 Vdc
Interelectrode Capacitance	1.0 pF
Time Response Fall Time (Typ.)	
Application 1	Spectrophotometer
Application 2	Blood analyzer

Application 3	Liquid chromatography
Application 4	Pollution monitor
Application 5	Colorimeter
Recommended Type	

Notes :

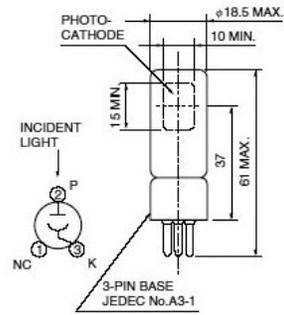
\*a : Output Current averaged over 1 second time interval. The whole photocathode is uniformly illuminated.

\*b : When a tube is operated below -35 deg.C.

\*c : The photoelectric current from the photocathode per incident light flux (10e-5 to 10e-2 lumens) from a tungsten filament lamp operated at a distribution temperature 2856K.

\*d : At recommended operating voltage.

**Dimensional/Characteristic Chart**



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