PHOTOMULTIPLIER TUBES
FOR GAMMA CAMERA

For Gamma Camera and Scintillation Counting,
Low Profile, High P. H. R.

<table>
<thead>
<tr>
<th>Type. No.</th>
<th>Cathode Sensitivity</th>
<th>Anode Sensitivity</th>
<th>Rise Time (ns)</th>
<th>P.H.R. *3</th>
<th>Stability *4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Luminous (µA/Im)</td>
<td>Blue *1 (µA/Im-b)</td>
<td>Q.E. *2 (%)</td>
<td>Luminous (A/Im)</td>
<td>Blue *1 (A/Im-b)</td>
</tr>
<tr>
<td>R6231-01</td>
<td>110</td>
<td>12.0</td>
<td>30</td>
<td>30</td>
<td>3.5</td>
</tr>
<tr>
<td>(51mm Dia.)</td>
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<td>30</td>
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<td>3.5</td>
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<tr>
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</table>

*1: Filter; CORNING CS-5-58 polished to 1/2 stock thickness
*2: At 420 nm
*3: Measured with an NaI (TI) scintillator and a 57Co source.
   a: 51 mm(2") diameter × 51 mm(2") thickness, b: 76 mm(3") diameter × 76 mm(3") thickness
*4: This is defined as follows under the operation for 16 hours at a constant count rate of 1k cps:

\[ D_s = \frac{\sum_{i=1}^{n} P_i - P}{n} \times 100 \%
\]

Where P is the mean pulse height averaged over n readings, Pi is the pulse height at the i-th reading, and n is the total number of readings.

VOLTAGE DISTRIBUTION RATIO AND SUPPLY VOLTAGE

<table>
<thead>
<tr>
<th>Electrodes</th>
<th>K</th>
<th>G</th>
<th>Dy1</th>
<th>Dy2</th>
<th>Dy3</th>
<th>Dy4</th>
<th>Dy5</th>
<th>Dy6</th>
<th>Dy7</th>
<th>Dy8</th>
<th>P</th>
</tr>
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<tbody>
<tr>
<td>Ratio</td>
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<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Supply Voltage: 1000Vdc, K: Cathode, Dy: Dynode, P: Anode, G: Grid

NOTE: Standard Bleeder Assembly or Custom Designed Bleeder Assembly will be provided upon your requests.
Figure 1: Typical Spectral Response

Figure 2: Anode Sensitivity and Gain Characteristic

Dimensional Outlines and Basing Diagrams (Unit: mm)

R6231-01

R6232-01
Dimensional Outlines and Basing Diagrams (Unit: mm)

**R6233-01**

- Faceplate: Ø76.0±0.8
- Photocathode: Ø51.5±1.5
- SEMIFlexible Leads: 70MIN.

**R6234-01**

- Faceplate: 67±1
- Photocathode: Ø51.5±1.5
- SEMIFlexible Leads: 40MIN.

**R6235-01**

- Faceplate: 85±1
- Photocathode: Ø51.5±1.5
- SEMIFlexible Leads: 70MIN.

**R6236-01**

- Faceplate: 59±1.0
- Photocathode: Ø51.5±1.5
- SEMIFlexible Leads: 40MIN.
PHOTOMULTIPLIER TUBES FOR GAMMA CAMERA

Dimensional Outlines and Basing Diagrams (Unit: mm)

R6237-01

PHOTOCATHODE

SEMIFLEXIBLE LEADS

FACEPLATE

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