Hamamatsu Photonics (HPK)

Company Profile

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Hamamatsu Photonics K.K.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Hamamatsu, Shizuoka, JAPAN</td>
</tr>
<tr>
<td>Established</td>
<td>September 29, 1953</td>
</tr>
<tr>
<td>Capital</td>
<td>34,928 Million JPY</td>
</tr>
<tr>
<td>Net Sales (FY ended 9/30/2019)</td>
<td>145,912 Million JPY</td>
</tr>
<tr>
<td>Number of Employees</td>
<td>3,571</td>
</tr>
</tbody>
</table>

Main Products

➤ Photodiode
- InGaAs/Si Photodiode
- SiAPDs/MPPC
- Photo IC
- Phototubes

➤ Sensor/Camera
- Image Sensor
- X-Ray Sensor
- Distance & position sensors
- CMOS Camera
- CCD Camera
- InGaAs Camera

➤ Systems
- Life science & medical systems
- Manufacturing support systems
- Photometry systems

etc.
## New Products/Photodiode for 56GB/96GB/130GB

<table>
<thead>
<tr>
<th>Type</th>
<th>Active Area</th>
<th>Ct Vr=3V</th>
<th>Sensitivity Λ=1.31nm</th>
<th>1ch</th>
<th>4ch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>250um</td>
</tr>
<tr>
<td>FT</td>
<td>Φ16</td>
<td>65fF</td>
<td>0.8A/W</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td></td>
<td>Φ20</td>
<td>80fF</td>
<td>0.8A/W</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>BT</td>
<td>Φ16(※1)</td>
<td>55fF</td>
<td>0.85A/W</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td></td>
<td>Φ16(※1)</td>
<td>75fF(※2)</td>
<td>0.85A/W</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

### FT Type
- **Φ16**: 65fF, 0.8A/W
- **Φ20**: 80fF, 0.8A/W

### BT Type
- **Φ16(※1)**: 55fF, 0.85A/W
- **Φ16(※1)**: 75fF(※2), 0.85A/W

### BT-CoC
- **Φ16(※1)**: 55fF, 0.85A/W
- **Φ16(※1)**: 75fF(※2), 0.85A/W

### WG Type
- **96/130GB 250umP 4ch Underdevelopment**

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**Condition:**
- AGC-mode, Vcc=3.3V, Vpd=3.3V, Vgc=0.7V, Pin=-15dBm

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※1: Actual effective lens diameter is 40um  
※2: Including quartz submount Ct