Thermal Printheads

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ROHM has unique expertise in key fields
Leading-edge solutions based on advanced technologies: semiconductors, thick-film screen printing, and thin-film layer formation.

Distinctive feature
1 Reliable technology of the thick film
- To adapt the heat element material which is strength to the voltage.
- To adapt the conductive layer material which is strength to the corrosion.
- Higher sealing performance on the coating.
The reliability has been improved by adapting above three technologies.

Distinctive feature
2 The technology of TPH protection coat
- Hybrid structure
- Normal Coat
  - Life Abrasion: Max. 50km
  - The normal type of protection coat. Suitable for low speed application (FAX and mobile).
- X-Coat
  - Life Abrasion: Max. 100km
  - Add the high temper protection by thin film technology. Suitable for ESD solution due to the conductivity. POS/ECR are the main market.
- W-Coat
  - Life Abrasion: Max. 150km
  - High temper protection coat by thin film technology. High reliability at high speed print. Suitable for industrial machineries.

Distinctive feature
3 High-speed, high quality thin-film technology.
ROHM original thin-film technology improves print density, making it possible to maintain quality even at high speeds.

Conventional
ROHM New thin film

Heat response of heat element
- ROHM’s new thin film provides superior image quality at high speeds compared with competitor products.
- The peak temperature is higher and cooling response quicker compared with conventional models, providing fast, sharp printing.

The protection film technology which ROHM has is suitable for POS and desktop printer.
**Thermal Printheads Selection Guide**

- **Facsimiles**
  - KA2008-AF10A

- **Gaming Equipments / ATMs**
  - KD2002-CF15A
  - KD2003-CF15A
  - KD2004-CF15A
  - KD2008-CF10A
  - KD2008-CG50A

- **POS Terminals**
  - KD2002-DF11A
  - KD2003-DF11A
  - KD2004-DF11A

- **Distribution Labels / Food Labels**
  - AE2002-DC50A
  - KD2004-DC92A
  - KD2006-DC92A
  - KD3004-DC92A
  - KD3006-DC92A
  - KD2004-DC72A
  - KD2006-DC72A
  - KD3004-DC72A
  - KD3006-DC72A

- **POS Terminals** (DF, DG Series)
  - KD2002-DF11A
  - KD2003-DF11A
  - KD2004-DF11A

- **Mobile Printers**
  - KA2002-BE10A
  - KA2002-BE13A
  - KA2003-BE51A
  - KA2004-BE51A

- **High-speed Printers for Packaging**
  - AH2001-DK50A
  - AH2002-DK50A
  - AH2004-DK50A
  - AH3002-DK60A
  - AH3004-DK50A
  - AH3004-DK60A

- **Ticket / Scale Printers**
  - KD2002-DC92A
  - KD2003-DC92A
  - KD2004-DC92A
  - KD2006-DC92A
  - KD3002-DC92A
  - KD3003-DC92A
  - KD3004-DC92A
  - KD3006-DC92A
  - KD2002-DC72A
  - KD2003-DC72A
  - KD2004-DC72A
  - KD2006-DC72A
  - KD3002-DC72A
  - KD3003-DC72A
  - KD3004-DC72A
  - KD3006-DC72A

- **DC Series**
  - KD2002-DC92A
  - KD2003-DC92A
  - KD2004-DC92A
  - KD2006-DC92A
  - KD3002-DC92A
  - KD3003-DC92A
  - KD3004-DC92A
  - KD3006-DC92A
  - KD2002-DC72A
  - KD2003-DC72A
  - KD2004-DC72A
  - KD2006-DC72A
  - KD3002-DC72A
  - KD3003-DC72A
  - KD3004-DC72A
  - KD3006-DC72A

- **AH Series**
  - KD2002-DK50A
  - KD2003-DK50A
  - KD2004-DK50A
  - KD3002-DK60A
  - KD3003-DK60A
  - KD3004-DK60A

- **Ticket / Scale Printers**
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  - KD2003-DC92A
  - KD2004-DC92A
  - KD2006-DC92A
  - KD3002-DC92A
  - KD3003-DC92A
  - KD3004-DC92A
  - KD3006-DC92A
  - KD2002-DC72A
  - KD2003-DC72A
  - KD2004-DC72A
  - KD2006-DC72A
  - KD3002-DC72A
  - KD3003-DC72A
  - KD3004-DC72A
  - KD3006-DC72A

- **Productions**
  - KD2002-DC92A
  - KD2003-DC92A
  - KD2004-DC92A
  - KD2006-DC92A
  - KD3002-DC92A
  - KD3003-DC92A
  - KD3004-DC92A
  - KD3006-DC92A
  - KD2002-DC72A
  - KD2003-DC72A
  - KD2004-DC72A
  - KD2006-DC72A
  - KD3002-DC72A
  - KD3003-DC72A
  - KD3004-DC72A
  - KD3006-DC72A

- **Under development**
For Facsimiles: A series

- **Features**
  ROHM’s thermal printheads for A4 facsimiles employ cutting-edge LSI mounting technology, contributing to a reduction in the size and weight of printers. It enjoys wide use due to their high productivity, basic structure and reliable performance.

- **Applications**
  Facsimiles of all types, from personal to business. Also ideal for ECGs and other medical imaging equipment due to particle-free printing.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Resolutions (dpi)</th>
<th>Logic Voltage (V)</th>
<th>Print Width (mm)</th>
<th>Number of dot (dots)</th>
<th>Resistance Tolerance (±)</th>
<th>Platen Diameter Max. (mm)</th>
<th>Print Speed (mm/s)</th>
<th>Supply Voltage (V)</th>
<th>Heat Sink</th>
<th>Abrasion Life (km)</th>
<th>Pulse Life (&gt;1 million pulses)</th>
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For Mobile Printers: B series

- **Features**
  Leading-edge LSI mounting technology contributes to more compact, lightweight printers. A 2.7V circuit supply voltage makes operation possible on a single li-ion cell. This series implement world-class energy-saving measures and most suitable for mobile printers.

- **Applications**
  Ideal for mobile printers, with low voltage and current capacity limitations, and EFT-POS terminals or compact label printers, where small size and low energy consumption are important requirements.

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<thead>
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<th>Print Speed (mm/s)</th>
<th>Supply Voltage (V)</th>
<th>Heat Sink</th>
<th>Abrasion Life (km)</th>
<th>Pulse Life (&gt;1 million pulses)</th>
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<td>176</td>
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</tbody>
</table>

We can also develop a thermal printhead per customized specifications. Please contact a ROHM sales representative for further details.

www.rohm.com
Features
Adopting the most suitable structures of the heat elements such as CF series for 100mm/s high speed printing, CG series for 150mm/s make the high quality printings and energy-savings possible. Plus, those thermal print heads are able to cover various controls by adopting the high-frequency clock.

Applications
High versatility makes these products ideal for POS terminals, ATMs slot machines, lottery printers, and the like.

| CF series | KD2002-CF15A | 203 | 3.13 to 5.25 | 54 | 432 | 800 | 14.0 | 50 to 150 | 24 | Yes | 50 | 50 |
| KD2003-CF15A | 203 | 3.13 to 5.25 | 72 | 576 | 800 | 14.0 | 50 to 150 | 24 | Yes | 50 | 50 |
| KD2004-CF15A | 203 | 3.13 to 5.25 | 108 | 864 | 800 | 14.0 | 50 to 150 | 24 | Yes | 50 | 50 |
| KD2008-CF10A | 203 | 3.13 to 5.25 | 216 | 1,728 | 1,000 | 20.0 | 50 to 100 | 24 | Yes | 50 | 50 |
| CG series | KD2008-CG50A | 203 | 4.75 to 5.25 | 216 | 1,727 | 800 | 20.0 | 50 to 150 | 24 | Yes | 50 | 50 |

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# Thermal Printheads

## For POS Terminals: DF, DG series

### Features

The original heat element structure enables dark printing from the get go with minimal smearing at the end for optimum print quality, even at high 50-250mm/s printing speeds.

### Applications

Ideal for POS and ECR printers that support high-speed printing (6-10ips) and compact label printers using thick labels.

### DF series

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<th>Number of dot (total)</th>
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<th>Print Speed (mm/s)</th>
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<th>Heat Sink</th>
<th>Abrasion Life [km]</th>
<th>Pulse Life [1 million]</th>
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### DG series

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</tbody>
</table>

*Under development*  

We can also develop a thermal printhead per customized specifications. Please contact a ROHM sales representative for further details.
For Ticket or Scale Printers: DC92, DC72 series

Features
ROHM's high-current thermal printheads, featuring a heat element structure compatible with high-speed printing along with a durable protective film, enable high-speed printing with superior energy savings, providing superior reliability in industrial equipment.

Applications
Ideal for applications used in the outdoor or requiring continuous printing, such as ticket machines, tag/food scales, or parking ticket machines. The heat history controls are equipped with DC72 which is ROHM's original and covers high-speed printings of 12ips.

<table>
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<td>4.75 to 5.25</td>
<td>162.6</td>
<td>1,920</td>
<td>1,250</td>
<td>20.0</td>
<td>100 to 250</td>
<td>24</td>
<td>Yes</td>
<td>150</td>
<td>100</td>
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</tr>
</tbody>
</table>

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www.rohm.com
For Distribution or Food Labels : DC series

Features

These thermal printheads are optimized for top-class bar code printers for the industrial equipment sector. In addition, a new structure utilizing thin-film technology enables high-speed, high-quality printing.

Applications

Ideal for bar-code printers or label printers at factory assembly lines or distribution centers where 24-hour operation or continuous printing are required.

For Distribution or Food Labels : DC series

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Resolutions (dpi)</th>
<th>Logic Voltage (V)</th>
<th>Print Width (mm)</th>
<th>Number of dots</th>
<th>Resistance Tolerance (Ω)</th>
<th>Platen Diameter Max. (mm)</th>
<th>Print Speed (mm/s)</th>
<th>Supply Voltage (V)</th>
<th>Heat Sink</th>
<th>Abrasion Life (km)</th>
<th>Pulse Life (&gt;1 million) (pulses)</th>
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<tbody>
<tr>
<td>AE2002-DC50A</td>
<td>203</td>
<td>4.75 to 5.25</td>
<td>56</td>
<td>448</td>
<td>550</td>
<td>20.0</td>
<td>150</td>
<td>24</td>
<td>Yes</td>
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<tr>
<td>KD2004-DC92A</td>
<td>203</td>
<td>4.75 to 5.25</td>
<td>104</td>
<td>832</td>
<td>550</td>
<td>20.0</td>
<td>100 to 250</td>
<td>24</td>
<td>Yes</td>
<td>150</td>
<td>100</td>
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<tr>
<td>KD2006-DC92A</td>
<td>203</td>
<td>4.75 to 5.25</td>
<td>168</td>
<td>1,344</td>
<td>650</td>
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<td>100 to 250</td>
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<tr>
<td>KD3004-DC92A</td>
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<td>4.75 to 5.25</td>
<td>108.4</td>
<td>1,280</td>
<td>1,250</td>
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<td>150</td>
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<td>1,920</td>
<td>1,250</td>
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<td>100 to 300</td>
<td>24</td>
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<tr>
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<td>104</td>
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<td>100 to 300</td>
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<td>Yes</td>
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<td>20.0</td>
<td>100 to 250</td>
<td>24</td>
<td>Yes</td>
<td>150</td>
<td>100</td>
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</tbody>
</table>

For Packaging High-speed Printers : AH series

Features

These thermal heads feature a near-edge structure based on the high-speed, high-quality, reliable step-free SE, SF series, enabling straight path for hard media or high speed printing.

Applications

Ideal for packaging printers requiring high reliability.

For Packaging High-speed Printers : AH series

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Resolutions (dpi)</th>
<th>Logic Voltage (V)</th>
<th>Print Width (mm)</th>
<th>Number of dots</th>
<th>Resistance Tolerance (Ω)</th>
<th>Platen Diameter Max. (mm)</th>
<th>Print Speed (mm/s)</th>
<th>Supply Voltage (V)</th>
<th>Heat Sink</th>
<th>Abrasion Life (km)</th>
<th>Pulse Life (&gt;1 million) (pulses)</th>
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<tbody>
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<td>AH2001-DK50A</td>
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<td>4.75 to 5.25</td>
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<td>320</td>
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<td>100</td>
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<td>1,250</td>
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<td>1,280</td>
<td>1,250</td>
<td>∞</td>
<td>200</td>
<td>24</td>
<td>Yes</td>
<td>50</td>
<td>100</td>
</tr>
</tbody>
</table>

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