

Modules

Thermal Printheads

CONTENTS

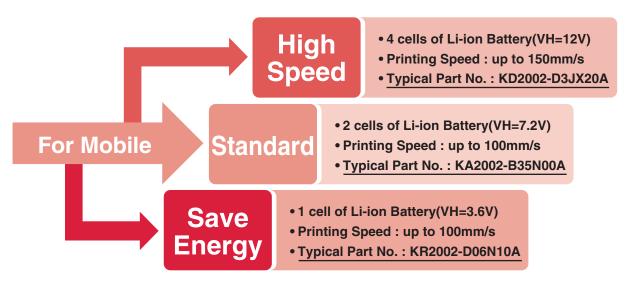
■Introduction of ROHM Thermal Printheads ··· F	P. F10
■Part No. Configuration	P. F 11
For Facsimiles : A series	P. F12
■ For Mobile Printers series ·······	P. F12
■For Gaming Equipment, ATMs: CF/CA, CG/LE series	P. F13
For POS Terminals : DF/DA, DE/KE series	P. F14
■For Ticket, Barcode Label Printers : DC92/DC72, AE series	P. F15
■For Packaging High-speed Printers : AH series	P. F16



Introduction of ROHM Thermal Printheads

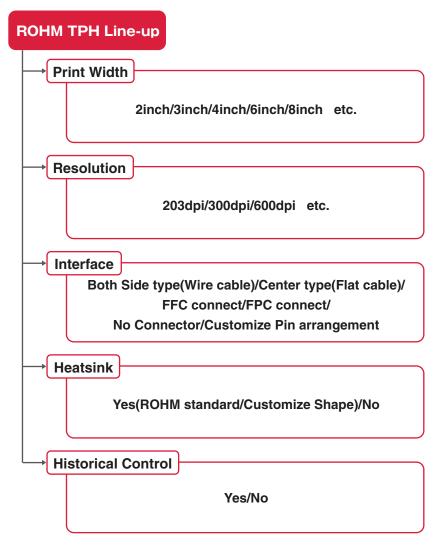
Propose various applications from ROHM wide line-up

1. New Thermal Printhead for saving energy and high speed printing.



From traditional 7.2V drive, the customer need diversification of applications. ROHM is developing in order to response these requests.

2. ROHM wide line-up

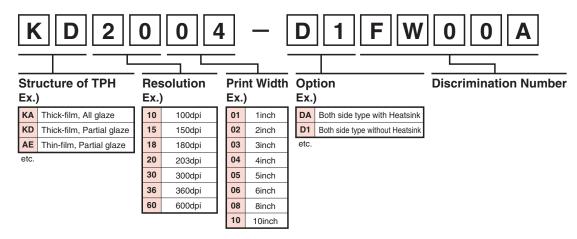


We have various line-up to response the customer requests.

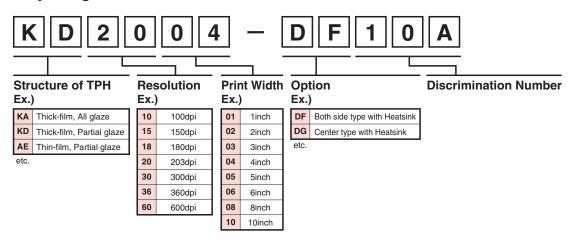
Please contact a ROHM sales representive for further details when there is no product on our line-up.

Part No. Configuration

Totally 13 digit



Totally 11 digit



For Facsimiles: A series



■Features

In-house IC is mounted on ROHM printheads for A4 facsimiles, 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.

For Facsimiles:	For Facsimiles : A series														
Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance Tolerance (Ω)	Platen Diameter Max. (mm)	Print Speed (mm/s)	Supply Voltage (VH)	Logic Voltage (VDD)	Heat Sink	Interface					
KA2008-AF10A	203	216	1,728	3,000	20.0	6.25 to 12.5	24	3.13 to 5.25	Yes	9pin x 2 Both-side type (Wire cable)					

For Mobile Printers series



■Features

3.6V Li-ion battery drinving model and 150mm/s high speed printing model are added to line-up.

ROHM develops the products in order to respond to the diversification of product.

Applications

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

	For Mobile Print	ters serie	es								
	Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance Tolerance (Ω)	Platen Diameter Max. (mm)	Print Speed (mm/s)	Supply Voltage (VH)	Logic Voltage (VDD)	Heat Sink	Interface
	KR2002-D06N10A				80			3.6		_	21pin
	KA2002-FB20A		48	384							Non connector (Pre-soldering)
Ī	KA2002-B35N00A					8.0					21pin
Ī	KA2003-B35N00A	000	72	576							Center type (Flat cable)
Ī	KA2002-BE13A	203	48	384		14.0	100		2.7 to 5.25	_	
	KA2003-BE51A		72	576	176			7.2			28pin
	KA2004-BE51A		104	832							Center type (Flat cable)
New	KA2004-D35N90A		104	832							
	KA3002-B05N00A	300	48.8	576			75				21 pin Non connector (Pre-soldering)
	KA2002-D35N20A		48	384			100				
	KA2003-D35N20A		72	576		440	100				21pin
	KD2002-D3JX20A		48	384		14.0					Center type (Flat cable)
	KD2003-D3JX20A	203	72	576	210			12.0			
New	KD2002-D5JX20A		56	448			150				28pin
	KD2003-D5JX20A		80	640		20.0					Center type (Flat cable)
	KD2004-D5JX20A		104	832							(i lat cable)

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

Thermal Printheads

For Gaming Equipment, ATMs: CF/CA, CG/LE series



■Features

Adopting the most suitable structures of the heat elements such as CF/CA 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, gaming, lottery printers, and the like.



	CF/CA series										
	Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance Tolerance (Ω)	Platen Diameter Max. (mm)	Print Speed (mm/s)	Supply Voltage (VH)	Logic Voltage (VDD)	Heat Sink	Interface
	KD2002-CAFW00A		54	432						Yes	7pin×2, Both-side type (Wire cable)
ĺ	KD2003-CAFW00A		72	576	800	140	150			Yes	
	KD2004-CAFW00A	000	108	864	800	14.0	150			Yes	9pin×2,
Nev	KD2004-C1GW00A	203	108	864				24	3.13 to 5.25		Both-side type (Wire cable)
Nev	KD2004-CAGW00A	108	864						Yes		
	KD2008-CF10A		216	1,728	1,000		100	_		Yes	15pin×2, Both-side type (Wire cable)
	KD2008-CF16A		216	1,728	800	20.0	125			Yes	
	KD3008-CF10A	300	219.5	2,592	1,250		100			Yes	
	CG/LE series										
	Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance Tolerance (Ω)	Platen Diameter Max. (mm)	Print Speed (mm/s)	Supply Voltage (VH)	Logic Voltage (Voo)	Heat Sink	Interface
	KD2002-CG11A		54	432		00.0			0.40.1- 5.05	Yes	- 28pin Center type (Flat cable)
	KD2003-CG11A		72	576		20.0			3.13 to 5.25	Yes	
Nev	KD2003-CG22A		72	576						Yes	
Nev	/ KD2003-CE22A	203	72	576	800	12.0	150	24	4.75 to 5.25	_	
	KD2004-CG11A		108	864					3.13 to 5.25	Yes	
	KD2008-CG50A		216	1,728		20.0			475. 5	Yes	
	KD3003-LEGW00A	300	73.2	864	1,000		125		4.75 to 5.25	Yes	

For POS Terminals : DF/DA, DE/KE series

DE/KE series



■Features

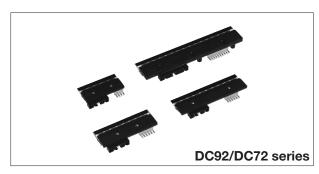
The original heat element structure enables dark printing from the get go with minimal smearing at the end for optimum print quality, even at high 100 to 250mm/s printing speeds.

■Applications

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

	DF/DA series														
	Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance Tolerance (Ω)	Platen Diameter Max. (mm)	Print Speed (mm/s)	Supply Voltage (VH)	Logic Voltage (VDD)	Heat Sink	Interface				
	KD2002-DAFW00A		56	448						Yes					
	KD2003-DAFW00A		80	640						Yes					
	KD2004-DAFW00A	203			650	20.0	250			Yes					
Nev	KD2004-D1GW00A]	104	832						_	15pin×2,				
Nev	KD2004-DAGW00A								3.13 to 5.25	Yes	Both-side type				
	KD3002-DF11A		54.2	640				24		Yes	(Wire cable)				
	KD3003-DF11A		81.3	960	4 000	40.0				Yes					
	KD3004-DF11A	000	100.4	4.000	1,000	18.0	400			Yes					
Nev	7 KD3004-K1GW00A	300	108.4	1,280			100		4.75 to 5.25	_					
	KD3008-DF54A		216.8	2,560	660	25.0				Yes	15pin×3, 3 points connec (Wire cable)				
	DE/KE series														
	Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance Tolerance (Ω)	Platen Diameter Max. (mm)	Print Speed (mm/s)	Supply Voltage (VH)	Logic Voltage (VDD)	Heat Sink	Interface				
	KD2002-DEFW00A			56	448						Yes	28pin Center type (Flat cable)			
Nen	KD2003-D0FW00A						20.0				_	28pin Non connecto (Pre-soldering			
Neu	KD2003-D5FW00A					20.0				_					
Neu	KD2003-D5GW00A				ı						Ì			_	28pin
ĺ	KD2003-DEFW00A								3.13 to 5.25	Yes	Center type (Flat cable)				
Neu	KD2003-DEGW00A									Yes					
Nen	KD2003-F0FW00A	203	80	640	650	14.0	250	24		_	28pin Non connecto (Pre-soldering				
Nen	KD2003-F5FW00A									_	28pin Center type (Flat cable)				
Nen	KD2003-F0GW00A									_	28pin Non connector (Pre-soldering)				
Nen	KD2003-F5GW00A									_	28pin				
	KD2004-DEFW00A									Yes	Center type (Flat cable)				
Nen	KD2004-D0GW00A		104	832		20.0				_	28pin Non connector(Pre soldering)				
	KD3003-KEFW00A	300	81.3	960	1,000	18.0	200			Yes	28pin Center type (Flat cable)				

For Ticket, Barcode Label Printers: DC92/DC72, AE series



■Features

ROHM's high-current thermal printheads, featuring a heat element structure compatible with high-speed printing along with a durable protective coating, enable high-speed printing with superior energy savings, providing superior reliability in industrial equipment. The heat history controls are equipped with DC72 which is ROHM's original and covers high speed printigns of 12ips.



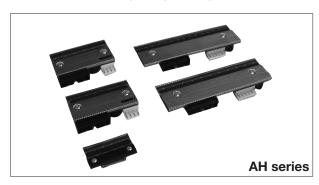
Applications

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

							I				T
Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance Tolerance (Ω)	Platen Diameter Max. (mm)	Print Speed (mm/s)	Supply Voltage (VH)	Logic Voltage (VDD)	Heat Sink	Interface	Historic
KD2002-DC92A		56	448	550						20pin connector, 4pin power connector (Wire cable)	
KD2003-DC92A]	80	640	550						20pin connector,	
KD2004-DC92A	203	104	832			100 to 150				6pin power connector (Wire cable)	
KD2006-DC92A		168	1,344	650	20.0		24	4.75 to 5.25	Yes	34pin connector, 10pin power connector (Wire cable)	
KD3002-DC92A		54.2	640		20.0		24	4.73 to 3.23	165	20pin connector, 4pin power connector (Wire cable)	
KD3003-DC92A	300	81.3	960	1.050		E0 += 100				20pin connector,	
KD3004-DC92A		108.4	1,280	1,250		50 to 100				6pin power connector (Wire cable)	
KD3006-DC92A		162.6	1,920							34pin connector, 10pin power connector (Wire cable)	
DC72 series											
Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance Tolerance (Ω)	Platen Diameter Max. (mm)	Print Speed (mm/s)	Supply Voltage (VH)	Logic Voltage (VDD)	Heat Sink	Interface	Histori Contr
KD2002-DC72A		56	448			100 to 250				20pin connector 4pin power connector (Wire cable)	
KD2003-DC72A		80	640	550				4754-505		20pin connector	
KD2004-DC72A	203	104	832							6pin power connector (Wire cable)	
KD2006-DC72A		168	1,344	650	20.0				Yes	34pin connector 10pin power connector (Wire cable)	
KD3002-DC72A		54.2	640	4.050	20.0		24	4.75 to 5.25	fes	20pin connector 4pin power connector (Wire cable)	Yes
KD3003-DC72A		81.3	960	1,250		1001 000				20pin connector	
KD3004-DC72A	300	108.4	1,280			100 to 200				6pin power connector (Wire cable)	
KD3006-DC72A		162.6	1,920	1,000						34pin connector 10pin power connector (Wire cable)	
AE series											
Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance Tolerance (Ω)	Platen Diameter Max. (mm)	Print Speed (mm/s)	Supply Voltage (VH)	Logic Voltage (VDD)	Heat Sink	Interface	Histori Conti
AE2004-DC50A	203	112	896	800	00.0	150		4754 50-	.,	26pin connector	
AE3004-DC50A	300	108.4	1,280	1,250	20.0	100	24	4.75 to 5.25	Yes	6pin power connector (Wire cable)	_



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 I	For Packaging High-speed Printers : AH series														
Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance Tolerance (Ω)	Platen Diameter Max. (mm)	Print Speed (mm/s)	Supply Voltage (VH)	Logic Voltage (VDD)	Heat Sink	Interface	Historical Control				
AH2001-DK50A		40	320			62.5	12		Yes	15pin Center type (Wire cable)					
AH2002-DC50A	203	56	448	850		83.3				20pin connector 4pin power connector (Wire cable)	_				
AH2004-DC50A		112	869		∞	83.3		4.75 to 5.25		20pin connector 6pin power connector (Wire cable)					
AH3002-DC60A		54.2	640			200	24			20pin connector 4pin power connector (Wire cable)	Yes				
AH3004-DC50A	300	108.4	1,280	1,250		56.5				20pin connector	_				
AH3004-DC60A		108.4	1,280			200				6pin power connector (Wire cable)	Yes				