

By Category PDF

Category Thermal Printheads

Modules

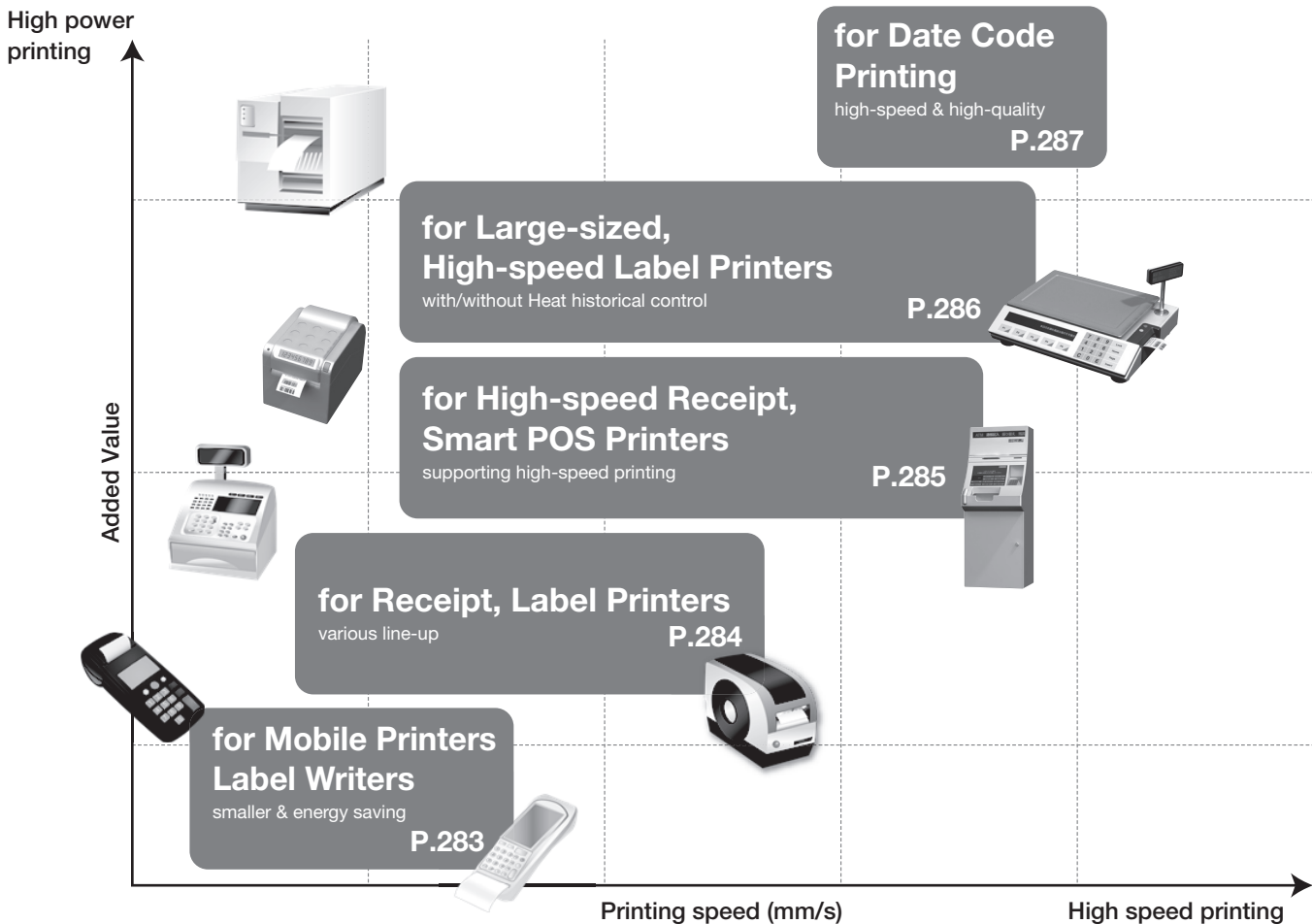
Thermal Printheads

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Thermal Printheads

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Selection guide



We have various line-up to response the customer requests. Please feel free to contact ROHM sales representative for further details if the product you are looking for is not listed.

Part No. Configuration

Totally 13 digit

K	D	2	0	0	4	-	D	1	F	W	0	0	A
Structure of TPH						Discrimination Number							
Ex.)	Resolution					Print Width		Option		Ex.)			
KA/KR	Flat structure, Full glaze					01	1inch	DA	Both side type connectors with Heatsink				
	10	100dpi	02	2inch									
	15	150dpi	03	3inch									
KD	Flat structure, Partial glaze					04	4inch	D1	Both side type connectors without Heatsink				
	18	180dpi											
	20	203dpi	05	5inch									
SH	Near-edge structure, Partial glaze					06	6inch	etc.					
	30	300dpi	08	8inch									
	36	360dpi	10	10inch									
	60	600dpi											
etc.													

Totally 11 digit

K	D	2	0	0	4	-	D	F	1	0	A		
Structure of TPH Ex.)						Resolution Ex.)		Print Width Ex.)		Option Ex.)		Discrimination Number	
KA/KR	Flat structure, Full glaze					10	100dpi	01	1inch	DF	Both side type connectors with Heatsink		
						15	150dpi	02	2inch				
						18	180dpi	03	3inch	DG	Center type connector with Heatsink		
KD	Flat structure, Partial glaze					20	203dpi	04	4inch				
						30	300dpi	05	5inch				
						36	360dpi	06	6inch				
SH	Near-edge structure, Partial glaze					60	600dpi	08	8inch				
						etc.		10	10inch		etc.		

For Mobile Printers series



■Features

In addition to the 7.2V drive industry standard type that matches Li-ion battery drive, the lineup includes a 4.2V drive energy saving type and a 12V drive high-speed printing type. A thermal print head that supports a variety of sets.

■Applications

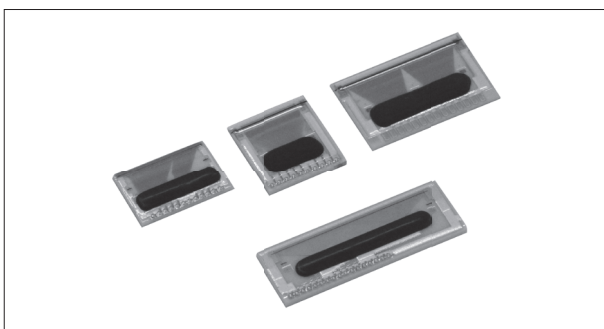
It is ideal for mobile printers with low voltage and strict current capacity restrictions, EFT-POS terminals with high demands for small size and energy savings, receipt printers, and small label printers.

For Mobile Printers series

	Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltage (Vcc)	Connector type	Abrasion life (km)	Pulse life (million pulses)
	KR2002-D06B71A	203	48	384	80	8	100	4.2	2.70 to 5.25	—	50	100
	KR3002-B06N1BA	300	48.787	576			50					
	KA2002-B05B70A	203	48	384	176		100	7.2		Flat Cable		
	KA2002-H05N00A											
	KA2002-B35N00A		72	576		—						
	KA2003-B35N00A											
	KA2003-H05N20A		104	832		Flat Cable						
	KA2004-D35N90A											
	KA2004-H05N20A	300	48.787	576	8	75	3.3 to 5.25	—				
New	KA3002-B05N00A											
	KA3003-H05N20A											
New	KA3004-303N00A		108.416	1280	210	14	100	2.70 to 5.25				
	KD2002-G0JB10A	203	48	384			150		12			
	KA3008-C03N10A	300	219.542	2592	395		100	14				50
												100

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

For Label writers series



■Features

ROHM's unique structure contributes to making printers smaller and lighter. A thick film structure with high contactability to the label, high corrosion resistance and excellent reliability, and a heat generating structure with excellent energy efficiency.

■Applications

Ideal for label writers that issue labels for organizing and wrapping.

For Label writers series

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltage (V _{cc})	Connector type	Abrasion life (km)	Pulse life (million pulses)
KL0643-BB11A	180	9.024	64	281	14	50	7.2	3.00 to 5.25	—	30	50
KL2000-E0KN60A	203	12	96	142	17			2.70 to 5.25		50	
KL1801-DB92A	180	18.048	128	400	14			4.75 to 5.25		30	
KA2001-B05N30	203	24	192	123				2.70 to 5.25		50	

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

For Receipt, Label Printers series



■Features

Adopting a heating element structure optimal for various printing speeds and media achieves both printing quality and energy saving. A thermal print head that supports high-level control by supporting a high-frequency clock.

■Applications

It is ideal for POS terminals used in a wide range of fields, receipt printing for ATMs, label printers, slot machines and lottery printers.

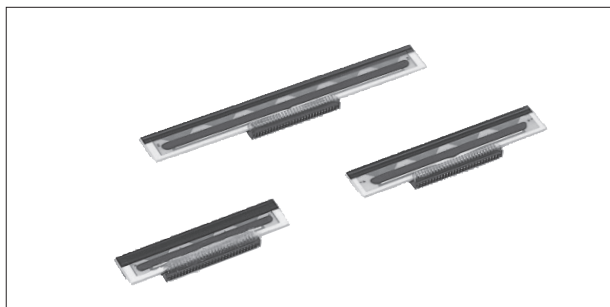


For Receipt, Label Printers series

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltage (V _{cc})	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)					
KD2002-CAFW00A	203	54	432	800	14	150	24	3.13 to 5.25	Wire Cable	YES	150	100					
KD2003-CAFW00A		72	576							NO							
New KD2004-C1GW00A		108	864														
KD2002-LEFW00A		54	432		20				Flat Cable	YES							
KD2003-CG11A		72	576														
KD2004-CG11A		108	864														
KD2008-CF10A	300	216	1728	1000	100	Wire Cable			50								
KD2008-CF16A				800	125												
KD3008-CF10A		219.542	2592	1250						100							
KD2008-CG50A						150		4.75 to 5.25		Flat Cable							
KD2003-L0GBA0A						203		72		576	800	12	200	3.13 to 5.25	—	NO	50

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

For High-speed Receipt, Smart POS Printers series

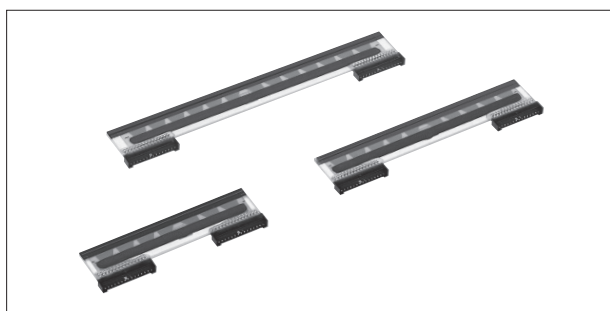


■Features

By adopting a unique heating element structure that supports high-speed printing, clear print quality can be obtained even at high-speed printing. This series achieves high-quality printing on various media.

■Applications

Ideal for Smart POS printers that support high-speed printing, ECR printers, and small label printers such as cardboard labels.

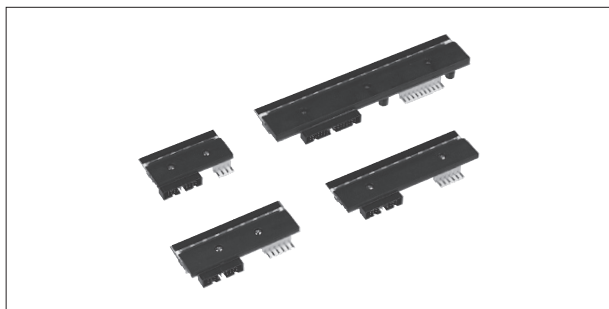


For High-speed Receipt, Smart POS Printers series

	Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltage _{vcc}	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)
New	KD2002-D5FW00A	203	56	448	650	20	250	24	3.13 to 5.25	Wire Cable	NO	150	100
New	KD2003-F0GB00A		80	640		14				—		50	50
New	KD2003-F0FW00A												
New	KD2004-D0GW00A		104	832	20	125	4.75 to 5.25		Wire Cable	YES	50	50	
	KD2005-UAGX00A		144	1152									800
	KD3002-KAFW00A	300	54.208	640	1000	18	200	3.13 to 5.25	Flat Cable	NO	150	100	
New	KD3002-GEFW00A					14	250						
	KD3003-K5FW00A					20	200						
	KD3003-KAFW00A		18										
	KD3004-KAGW00A												
	KD3008-DF54A		108.416	1280	660	25	100		4.75 to 5.25	Wire Cable			YES

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

For Large-sized, High-speed Label Printers series



■Features

This series responds to the high reliability required for industrial equipment by applying a heating element structure that supports high-speed printing, a highly durable protective film, and a structure that supports large currents.

■Applications

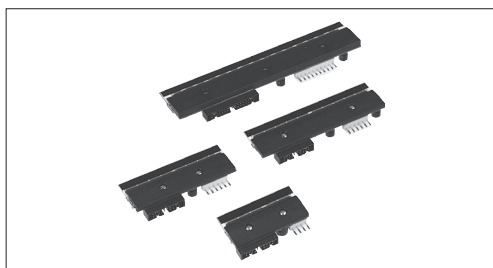
It is ideal for ticket machines, label printers, and food measuring instruments that are used outdoors or issue tickets continuously.

For Large-sized, High-speed Label Printers series

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltage (Vcc)	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)
KD2002-TQFW00A	203	56	448	550	20	250	24	3.13 to 5.25	Wire Cable	YES	150	100
KD2003-TQFW00A		80	640									
KD2004-TQFW00A		104	832									
KD2006-TQFW00A		168	1344									
KD3002-TQFW00A	300	54.208	640	850		400						
KD3003-TQFW00A		81.312	960									
KD3004-TQFW00A		108.416	1280									
KD3006-TQFW00A		162.624	1920									
TE3004-TP1W00A		105.706	1248	570								

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

For Large-sized, High-speed Label Printers with The Heat historical control



■Features

These thermal printheads are ideal for barcode label printers for industrial equipment that require high print quality. This series can control the heat generation time of each heating element from the heat generation history.

■Applications

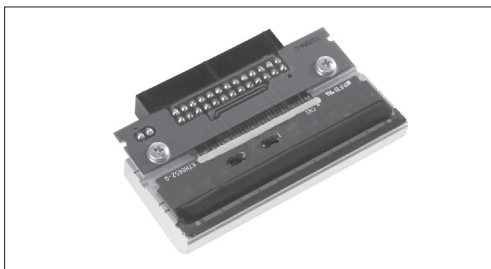
Ideal for barcode label printers used in assembly lines and distribution centers in factories that require 24-hour operation and continuous printing for a long time.

For Large-sized, High-speed Label Printers with The Heat historical control

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltageae (Vcc)	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)							
KD2002-RQFW00A	203	56	448	550	20	300	24	3.13 to 5.25	Wire Cable	YES	150	100							
KD2003-RQFW00A		80	640																
KD2004-RQFW00A		104	832																
KD2006-RQFW00A		168	1344																
KD3002-RQFW00A	300	54.208	640	850															
KD3003-RQFW00A		81.312	960																
KD3004-RQFW00A		108.416	1280																
KD3006-RQFW00A		162.624	1920																

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

For Date Code Printing



■Features

This thermal printhead is capable of high-speed printing and high-quality image quality even using a resin-based ink ribbon with excellent scratch resistance, which is considered difficult for high-speed printing.

■Applications

It contributes to improving productivity at food processing sites and logistics sites, including electronic tags used in logistics management and unmanned cash registers, environmentally friendly packaging materials and date code information required for complex logistics management.

For Date Code Printing												
Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltage (V _{cc})	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)
TH3001-2P1W00A	305	31.987	384	570	50	1000	24	3.13 to 5.25	Wire Cable	YES	150	100
TH3002-2P1W00A		53.312	640									

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