

By Category PDF

Category Thermal Printheads

Modules

Thermal Printheads

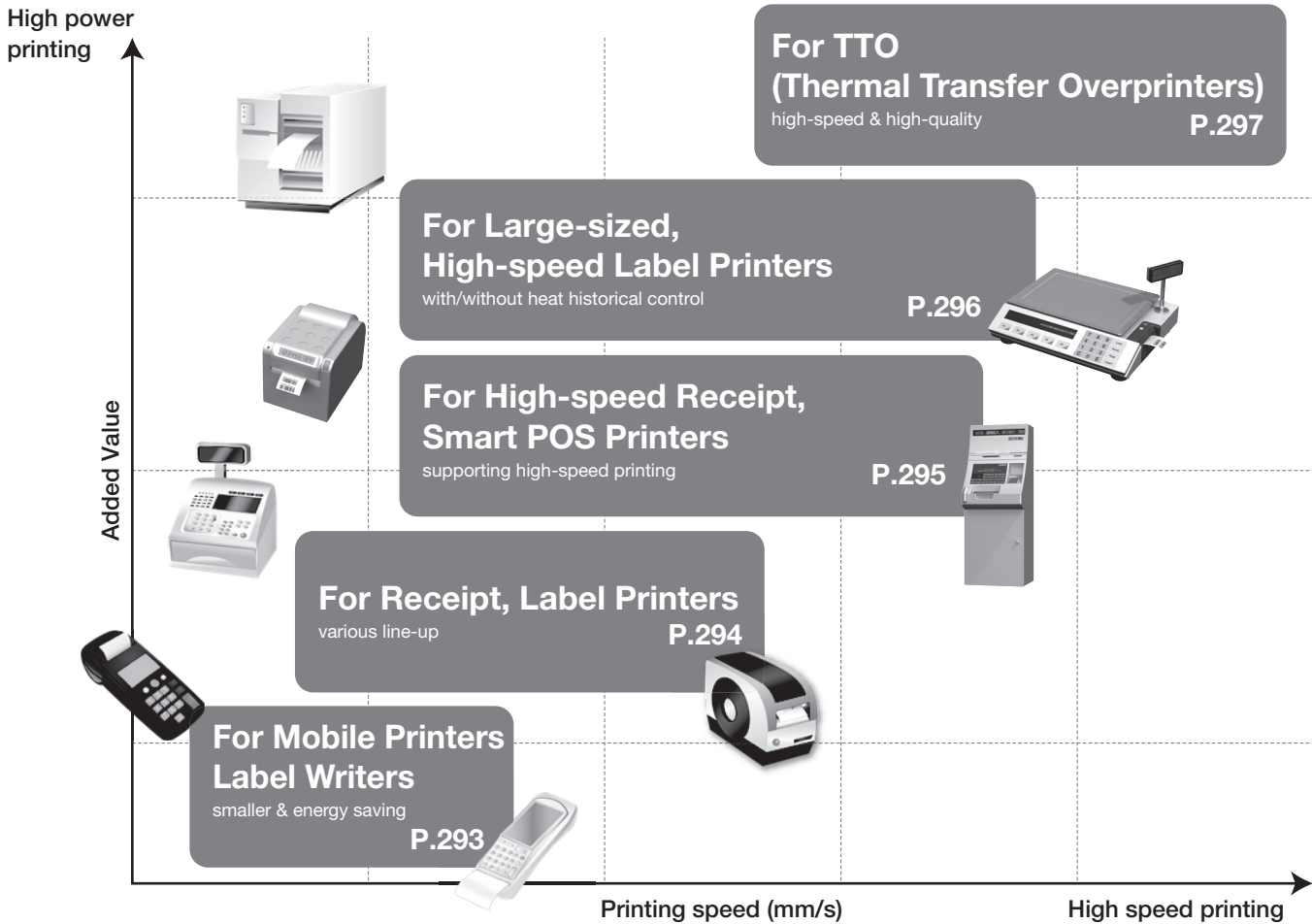
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Thermal Printheads

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Click on the icon to access the product page on ROHM's website. Please check the website for the latest updates.

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							
e.g.						e.g.							
KA/KR	Flat structure, Full glaze					01	1inch						
KD	Flat structure, Partial glaze					02	2inch						
						03	3inch						
SH	Near-edge structure, Partial glaze					04	4inch						
						05	5inch						
etc.						06	6inch						
						08	8inch						
Resolution						10	10inch						
e.g.						e.g.							
10	100dpi												
15	150dpi												
18	180dpi												
20	203dpi												
30	300dpi												
36	360dpi												
60	600dpi												
etc.													

Totally 11 digit

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

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.

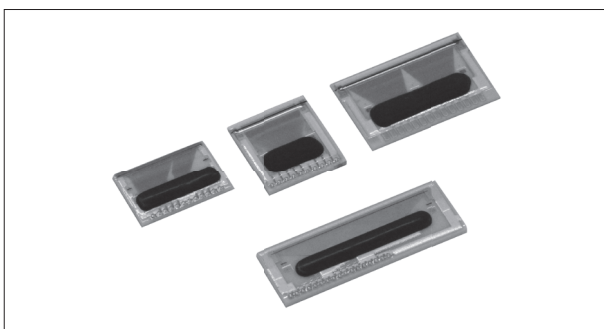
■Applications

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 (V _{cc})	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		14							—
KA2003-B35N00A												
KA2003-H05N20A	104	832	8	Flat Cable								
KA2004-D35N90A												
KA2004-H05N20A	300	48.787			576	210	14	75	—			
KA3003-H05N20A		73.181			864							
KA3004-303N00A		108.416	1280									
KD2002-G0JB10A		203	48	384	395					150	12	2.70 to 5.25
KA3008-C03N10A	300	219.542	2592	100		14	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. Adopts a heat generating structure with excellent energy efficiency, contributing to long battery life.

■Applications

Ideal for label writers that print on storage labels, name labels, wrapping ribbons, etc.

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.

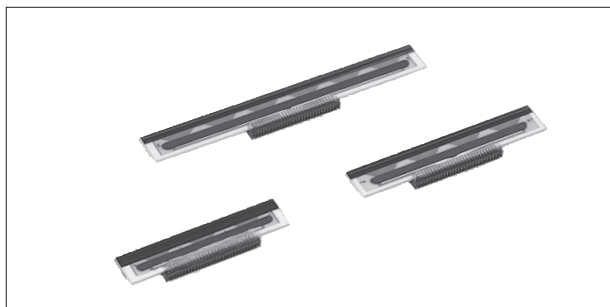


For Receipt, Label Printers series

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 _a (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					
KD2004-C1GW00A		108	864												
KD2002-LEFW00A		54	432		20				Flat Cable	YES	50	100			
KD2003-CG11A		72	576												
KD2004-CG11A		108	864												
KD2008-CF10A	300	219.542	2592	1000	100	Wire Cable			50		100				
KD2008-CF16A				800	125										
KD3008-CF10A				1250	100										
KD2008-CG50A				800		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

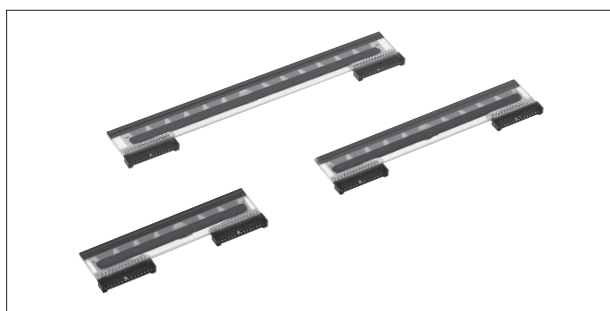


■Features

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.

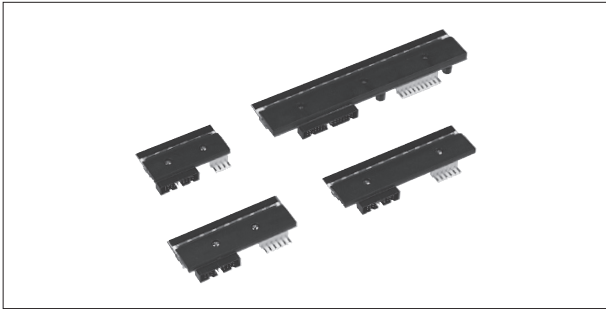


For High-speed Receipt, Smart POS Printers series

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)
KD2002-D5FW00A	203	56	448	650	20	250	24	3.13 to 5.25	Wire Cable	NO	150	100
KD2003-F0GB00A		80	640		14				—		50	50
KD2003-F0FW00A											150	100
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	24	3.13 to 5.25	Wire Cable	YES	150	100
KD3002-GEFW00A					14	250			Flat Cable			
KD3003-K5FW00A		81.312	960		20	200				Wire Cable		
KD3003-KAFW00A				18	100							
KD3004-KAGW00A		108.416	1280			660		25	100	4.75 to 5.25		
KD3008-DF54A		216.832	2560									

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

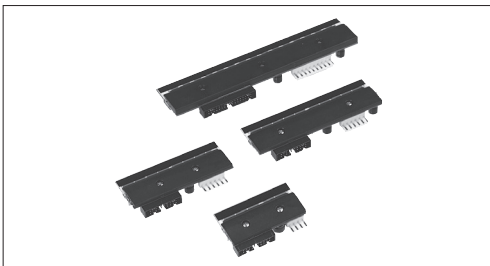
It is ideal for ticket machines, label printers, and food measuring instruments that are used outdoors or issue tickets continuously.

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									
<div>New</div> TE2004-QP1W00A	300	104	832	570		500						
KD3002-TQFW00A		54.208	640	850		250						
KD3003-TQFW00A		81.312	960									
KD3004-TQFW00A		108.416	1280									
KD3006-TQFW00A		162.624	1920									
TE3004-TP1W00A		105.706	1248	570		500						

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

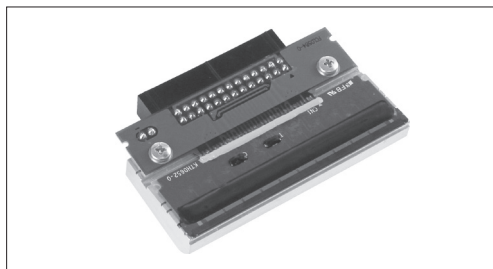
Ideal for barcode label printers used in assembly lines and distribution centers in factories that require 24-hour operation and continuous printing for a long time.

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 Voltage (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 TTO (Thermal Transfer Overprinters) series



■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

Ideal for label printers that print electronic tags used in logistics management and unmanned cash registers, environment-friendly packaging materials, and label printers that print date code labels required for complex logistics management. It contributes to productivity improvement at food processing sites and distribution sites.

For TTO (Thermal Transfer Overprinters) 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)
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.

