

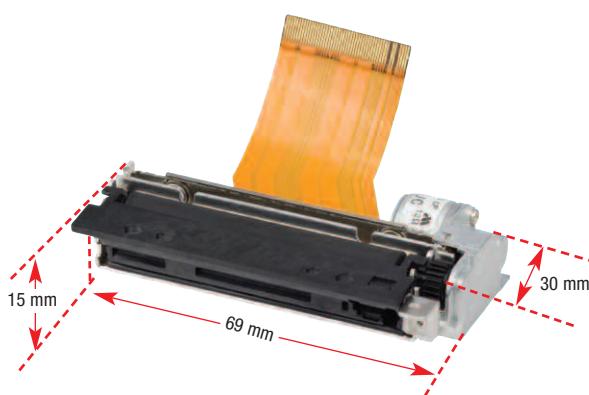


## LTPD/CAPD Series Low Voltage **Printer** Mechanisms



Designing mobile devices is increasingly challenging. Customers expect each new product generation to be smaller and faster, with long battery life. To be competitive, device manufacturers must reduce product size and increase speed. Time to market is crucial and reliability is non-negotiable.

New low voltage LTPD/CAPD series printer mechanisms tackle these challenges with dramatic advances in design flexibility, reliability, and printing performance.



2" LTPD model and 2" CAPD model.

### **Small**

LTPD/CAPD series mechanisms free up critical design real estate. The new mechanisms provide a smaller overall form factor, innovative angled paper guide requiring less depth, and a smaller pitch flexible print circuit (FPC) cable.

### **Fast**

LTPD/CAPD series mechanisms are fast, rated for up to 100 mm/second print speeds. This gives mobile devices a much needed performance boost.

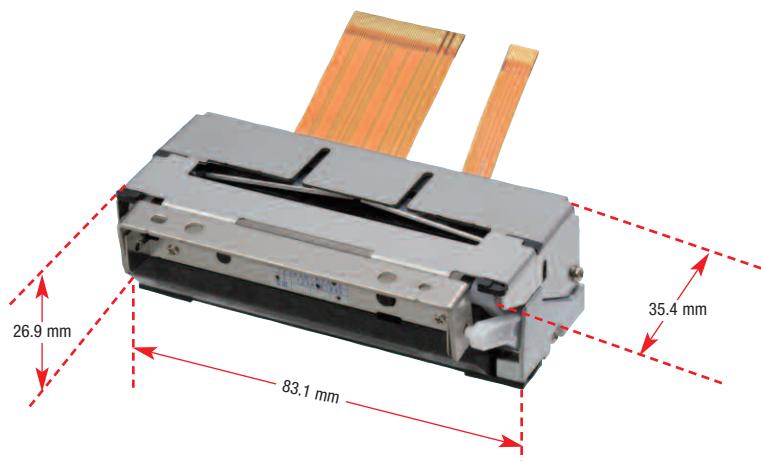
### **Reliable**

LTPD/CAPD series mechanisms offer a minimum of 50 km of total printing and 100 million pulses. CAPD models offer a new built-in auto-cutter design, improving cutter reliability. The result: reliable media output, every time.

### **Flexible**

LTPD/CAPD series mechanisms offer a wide array of form factor choices to provide versatility and flexibility for smoother integration. Options include EZ-OP clamshell-style and auto-loading models, ASIC and interface board solutions, and both horizontal and vertical mechanical orientation designs.

- 2" and 3" print width models**
- High speed printing (up to 100 mm/second)**
- Choice of horizontal and vertical orientations**
- EZ-OP clamshell and auto-loading paper replacement options**
- Platen latch for better shock absorption**
- Built-in auto-cutter (CAPD models)**





Seiko Instruments

Thermal Printer Division

**Product Specifications**

Model	LTPD245	LTPD345	CAPD245	CAPD345
Printing	Method		Thermal line dot printing	
	Number of dots/line	384	576	384
	Resolution(dots/mm)		8	
	Paper width (mm)	58 <sup>±0.1</sup>	80 <sup>±0.1</sup>	58 <sup>±0.1</sup>
	Printing width (mm)	48	72	48
	Speed (max mm/sec)	100	80	100
	Paper path		Curved	
Sensors	Head temperature		By thermistor	
	Platen position detection		By mechanical switch	
	Out of paper detection		By photo interrupter	
	Cutter home position detection	-	-	By photo interrupter
Power supply (V)	Operating Voltage (V <sub>dd</sub> )		2.7 to 3.6/4.75 to 5.25	
	Operating Voltage (V <sub>p</sub> )	-	4.75 to 9.5	-
Peak current (A)	Head	3.66 (9.5V/64dots) 5.49 (9.5V/96dots)	3.60 (9.5V/64dots) 5.40 (9.5V/96dots)	3.66 (9.5V/64dots) 5.49 (9.5V/96dots)
	Motor	0.6	0.6	0.6
	Cutter motor	-	-	0.7
Service life	Pulse activation (pulses)	100 million		100 million
	Abrasion resistance (km)*	50 *		50 *
Operating temperature (°C)		-10 to 50		-10 to 50
Dimensions (Wx Dx H mm)*	Horizontal	69.0 x 30.0 x 15.0 **	91.0 x 30.0 x 15.0 **	83.1 x 35.4 x 26.9 **
Mass(g)	Vertical	69.0 x 15.0 x 30.0 **	91.0 x 15.0 x 30.0 **	105.1x35.4x27.2***
		Approx. 40	Approx. 58	Approx. 125
Auto-cutter	Method	-	-	Slide cutting
	Paper thickness (um)	-	-	54 to 90* 54 to 78*
	Cutting type	-	-	Full cut and partial cut (1.5±0.5mm tab left at the center)
	Operating time (sec/cycle)	-	-	Approx 1.0
	Minimum paper cutting length (mm)	-	-	10
	Cutting frequency (max cuts/min)	-	-	30
Life span	Paper cutting (cuts)	-	-	500,000 *

\*Use recommended thermal paper. \*\*Excluding convex section.

\*\*\*Excluding mounting part. Specifications are subject to change without notice.

**IF Board Specifications**

	IFD501-01UK-E	IFD501-01SK-E
CPU	PTD50P01-E	
Corresponding Model	LTPD245, LTPD345 Series	CAPD245, CAPD345 Series
Operating Voltage (V)	Vp:4.75 to 9.5	
Character matrix (H x W dots)	16 dots character: 16 x 8, 16 x 16 24 dots character: 24 x 12, 24 x 24	
Character Type	Optional font Downloaded character User-defined character Extend graphics character set Katakana character set Codepage 1252 JIS 1&2 level kanji	Yes Yes Yes Yes Yes Yes Yes
Communication interface	USB(2.0)	Serial (RS-232C)
Dimensions (W x D x H mm)		69.0 x 50.0 x 14.0

**Optional Cables**

Accessory	Product
Power Cable	DC-04100A-E
Switch Cable	OC-D1430A-E
Serial Cable	OC-D0730A-E
USB Cable	IFC-U01-1-E

**ASIC Specifications:**

	PTD50P01-E
Corresponding model	LTPD245, LTPD345 series CAPD245, CAPD345 series
Package form	120pin QFP
Operating voltage (V)	Vp:4.75 to 9.5, Vcc:3.0 to 3.6
Operating frequency (MHz)	12MHz±0.01%
Configuration	C-MOS LSI
Communication interface	Parallel, Serial, USB
Character type	Extended graphics character set Other characters available With CGs or external memory
Character matrix (H x W dots)	16 dot character: 16 x 8, 16 x 16 24 dot character: 24 x 12, 24 x 24
Dimensions (W x D x H mm)	16.0 x 16.0 x 1.7



Seiko Instruments USA Inc.

Thermal Printer Division

2990 Lomita Blvd., Torrance, CA 90505

Telephone (310) 517-7778

Facsimile (310) 517-8154

Email: [printerinfo@seikoinstruments.com](mailto:printerinfo@seikoinstruments.com)[www.siiprinters.com](http://www.siiprinters.com)

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Seiko Instruments:

[CAPD245A-E](#) [CAP9247 Kit \(USB\)](#) [CAP9347 Kit \(USB\)](#) [CAPD245 Kit \(USB\)](#) [CAPD247 Kit \(USB\)](#) [CAPD345 Kit \(USB\)](#) [CAPD347 Kit \(USB\)](#) [LTPD245 Kit \(USB\)](#) [LTPD247 Kit \(USB\)](#) [LTPD345 Kit \(USB\)](#) [LTPD347 Kit \(USB\)](#)