

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.

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.

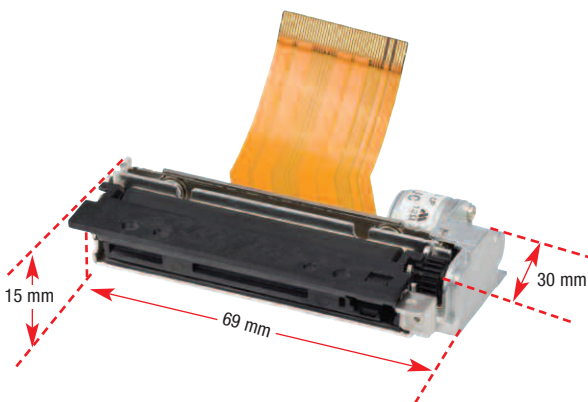
Reliable

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.

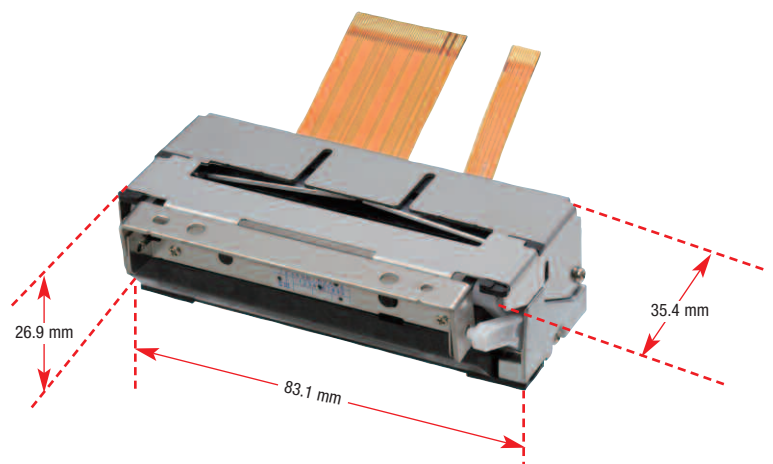
Flexible

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)**



2" LTPD model and 2" CAPD model.



Product Specifications

| Model | LTPD245 | LTPD345 | CAPD245 | CAPD345 |
|-----------------------------------|---------------------------|-----------------------|---|--------------------|
| Method | Thermal line dot printing | | | |
| Number of dots/line | 384 | 576 | 384 | 576 |
| Resolution(dots/mm) | 8 | | | |
| Paper width (mm) | 58 ⁺⁰⁻¹ | 80 ⁺⁰⁻¹ | 58 ⁺⁰⁻¹ | 80 ⁺⁰⁻¹ |
| Printing width (mm) | 48 | 72 | 48 | 72 |
| Speed (max mm/sec) | 100 | 80 | 100 | 80 |
| Paper path | Curved | | | |
| Head temperature | By thermistor | | | |
| Platen position detection | By mechanical switch | | | |
| Out of paper detection | By photo interrupter | | | |
| Cutter home position detection | - | - | By photo interrupter | |
| Operating Voltage (Vdd) | 2.7 to 3.6/4.75 to 5.25 | | | |
| Operating Voltage (Vp) | - | 4.75 to 9.5 | - | 6.5 to 9.5 |
| Head | 3.66 (9.5V/64dots) | 3.60 (9.5V/64dots) | 3.66 (9.5V/64dots) | 3.60 (9.5V/64dots) |
| Motor | 5.49 (9.5V/96dots) | 5.40 (9.5V/96dots) | 5.49 (9.5V/96dots) | 5.40 (9.5V/96dots) |
| Motor | 0.6 | 0.6 | 0.6 | 0.6 |
| Cutter motor | - | - | 0.7 | 0.7 |
| Pulse activation (pulses) | 100 million | | 100 million | |
| Abrasion resistance (km)* | 50 * | | 50 * | |
| Operating temperature (°C) | -10 to 50 | | -10 to 50 | |
| 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 ** | 105.1x35.4x27.2*** |
| Vertical | 69.0 x 15.0 x 30.0 ** | 91.0 x 15.0 x 30.0 ** | | |
| Mass(g) | Approx. 40 | Approx. 58 | Approx. 125 | Approx. 148 |
| 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 | |
| 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 | |
| Optional font | Yes | Yes |
| Downloaded character | Yes | Yes |
| User-defined character | Yes | Yes |
| Extend graphics character set | Yes | Yes |
| Katakana character set | Yes | Yes |
| Codepage 1252 | Yes | Yes |
| JIS 1&2 level kanji | 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 |

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

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- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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