

Line Thermal Printer Mechanisms

Type Classification

LT1 2 2 0 H A
① ② ③ ④ ⑤

① Size
2: 2inch class
3: 3inch class

② Voltage
2: 24V

③ Type
0: Standard

④ Paper path
H: Curl
V: Straight

⑤ Paper pressure
None: Standard (60-105μm)
A: For thick paper (110-150μm)

Paper roll
58 mm



LT1220

Features

- Simple and compact design
- High-speed printing
- Thick paper up to 0.15mm

Specifications

Printing method	Line thermal dot printing	
Total dots	432 dots/lines	
Dot density	8 dots/mm	
Printing width	54mm	
Printing speed	Max. 640 dot-lines/sec.	
Paper feeding pitch	0.125mm	
Sensors	Head temperature	Thermistor
	Paper presence	Photo-sensor
	Head-up	Photo-sensor
Voltage range	VH	DC 21.6 – 26.4V
	Vdd	DC 4.75 – 5.25V
Current consumption	Head	Max. Approx. 5.2A
	Motor	Max. Approx. 0.41A
Recommended paper	Width	58mm
	Thickness	60 – 105μm (Standard) 110 – 150μm (A type)
	Paper (Manufacturer)	TF50KS-E2D (Nippon Paper) etc.
Reliability	Head pulse-resistance	50,000,000 pulses or more
	Head wear-resistance	50km or more
Environment	Operation	Temperature: 0 ~ 45°C Humidity: 35 ~ 85% RH
	Storage	Temperature: -20 ~ 60°C Humidity: 10 ~ 90% RH
External dimensions (W × D × H)	91.5 × 58 × 20mm	
Weight	Approx. 87g	

Accessories

Control board ▶ BD2-1220U Gate array ▶ 202LA-00



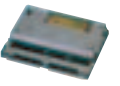
BD2-1220U



202LA-00

Interface	Parallel and RS-232C
Number of columns	36/48
Font	Font A: 12 × 24 dots Font B: 9 × 24 dots
Command set	ESC/POS
Barcode	Supported
Firmware location	Flash memory
Buffer	4k bytes
Supporting devices	Auto cutter, Paper sensor, Head-up sensor, LF switch, Error LED, Paper out LED
Dimensions	90 × 65mm
Source voltage	5.0 ±5% and 24V ±5%
Gate array	202LA-00

Auto cutter ▶ ACS-225



ACS-225

Cutting method	Slide cutting
Paper width	45 – 69mm
thickness	0.06 – 0.15mm
Max. cutting frequency	20 cuts/min
Voltage	24V ±10%
Current (peak)	0.8A
Operating temperature	0 – 45°C
Size	80 × 55.7 × 15mm
Weight	140g
Reliability	500,000 cuts
Number of tab left	
(F)ull cut blade type	None
(P)artial cut blade type	None or 1 tab

Paper roll
80 mm



LT1320

Features

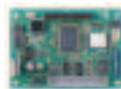
- Simple and compact design
- High-speed printing
- Thick paper up to 0.15mm

Specifications

Printing method	Line thermal dot printing	
Total dots	576 dots/lines	
Dot density	8 dots/mm	
Printing width	72mm	
Printing speed	Max. 640 dot-lines/sec.	
Paper feeding pitch	0.125mm	
Sensors	Head temperature	Thermistor
	Paper presence	Photo-sensor
	Head-up	Photo-sensor
Voltage range	VH	DC 21.6 – 26.4V
	Vdd	DC 4.75 – 5.25V
Current consumption	Head	Max. Approx. 5.2A
	Motor	Max. Approx. 0.41A
Recommended paper	Width	80mm
	Thickness	60 – 105μm (Standard) 110 – 150μm (A type)
	Paper (Manufacturer)	TF50KS-E2D (Nippon Paper) etc.
Reliability	Head pulse-resistance	50,000,000 pulses or more
	Head wear-resistance	50km or more
Environment	Operation	Temperature: 0 ~ 45°C Humidity: 35 ~ 85% RH
	Storage	Temperature: -20 ~ 60°C Humidity: 10 ~ 90% RH
External dimensions (W × D × H)	108 × 58 × 20mm	
Weight	Approx. 99g	

Accessories

Control board ▶ BD2-1220U Gate array ▶ 202LA-00



BD2-1220U



202LA-00

Interface	Parallel and RS-232C
Number of columns	48/64
Font	Font A: 12 × 24 dots Font B: 9 × 24 dots
Command set	ESC/POS
Barcode	Supported
Firmware location	Flash memory
Buffer	4k bytes
Supporting devices	Auto cutter, Paper sensor, Head-up sensor, LF switch, Error LED, Paper out LED
Dimensions	90 × 65mm
Source voltage	5.0 ±5% and 24V ±5%
Gate array	202LA-00

Auto cutter ▶ ACS-235



ACS-235

Cutting method	Slide cutting
Paper width	50 – 89mm
thickness	0.06 – 0.15mm
Max. cutting frequency	20 cuts/min
Voltage	24V ±10%
Current (peak)	0.8A
Operating temperature	0 – 45°C
Size	102 × 55.7 × 15mm
Weight	180g
Reliability	500,000 cuts
Number of tab left	
(F)ull cut blade type	None
(P)artial cut blade type	None or 1 tab



Example for KIOSK unit