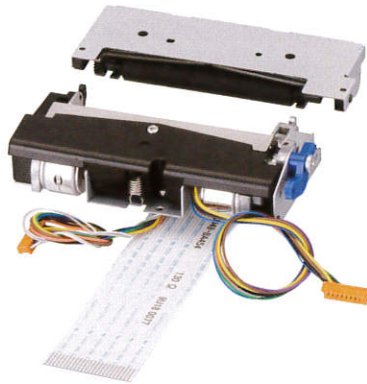


LINE THERMAL PRINTER MECHANISM

MLT4281



Features

- Ultra compact design and low voltage usage (5V)
- High-speed print: Max. 80mm/sec
- Built-in higher reliability (1 million cuts life) auto cutter
- Auto-cutter and a clamshell design for the easiest paper loading possible
- Robust and highly reliable Zinc die-cast frame works with a full range of portable applications
- Available sensors for head temperature, paper, platen and cutter position
- Tailor-made for handheld applications

Paper Roll
58
mm

SPEED
80 mm/sec.
MAX

REMOVABLE
PLATEN

AUTO
CUTTER

Optional Accessory

Control board



BD2-4281U

Specifications

		MLT4281
Printing method		Thermal dot line printing method
Total dots		384 dots/line
Dot density		8 dots/mm
Printing width		48mm
Printing speed		Max. 80mm/sec. (640 dot-lines/sec.)
Paper width		58mm
Paper feeding pitch		0.125mm
Sensors	PE sensor	Photo-interruptor
	Head temperature sensor	Thermistor
	Paper sensor	Photo-interruptor
	Platen sensor	Mechanical switch
	Cutter position sensor	Photo-interruptor
Frame		Zinc (Die cast)
Operating voltage range *1	VH	DC 4.2 to 8.5V
	Vdd	DC 3.0 to 5.5V
Current consumption	Head (VH)	Max. 2.2A approx.(VH=5V) Max. 3.7A approx. (VH=8.5V)
	Motor (VH)	Max. 0.8A approx.(VH=8.5V)
	Cutter driver motor (VH)	Max. 0.8A approx.(VH=8.5V)
Recommended paper	Width	58mm
	Thickness	φ60mm or less *2
	Diameter	59 to 75μm
	Paper (Manufacturer)	TF50KS-E2D (Nippon paper)
Reliability *3	Head pulse-resistance	100 million pulses or more
	Head wear-resistance	50km or more
	Auto cutter	1 million cuts *4
Environment	Operation	Temperature: 0 to 45°C Humidity: 35 to 85% RH (No condensation)
	Storage	Temperature: -20 to 60°C Humidity: 10 to 90% RH (No condensation)
External dimensions		79.0 (W) x 48.3 (D) x 18.0 (H)mm (Excluding the platen ass'y, motor and lever)
Weight		Approx. 110g

*1: Voltage drop at maximum current may cause the print quality problem. Please check it carefully in your environment such as control board, wiring, etc. Also please keep the voltage within the specified voltage range even by the voltage drop.

*2: The number of diameter varies depending on the conditions.

*3: Normal temperature at 25°C, normal humidity, 12.5% printing ratio, rated energy and by use of the recommended print paper.

*4: Performance may be changed depending on the cutter equipping method.

Model classification
MLT4281 - P1
1)

1) PNE sensor
None: No sensor
P1: PNE sensor