

Line Thermal Printer Mechanisms

Type Classification

LT-281

① Model
LT-281

①

LT-481 H

① Model
LT-481

② Paper path
H: Curl
V: Straight

① ②

Paper roll
60 mm



LT-281

Features

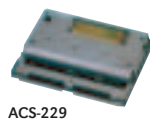
- Low noise printing
- High-speed printing
- High resolution
- High reliability due to heavy duty design

Specifications

Printing method	Line thermal dot printing	
Total dots	448 dots/lines	
Dot density	8 dots/mm	
Printing width	56mm	
Printing speed	Max. 101.6mm/sec. (813 dot-lines/sec.)	
Paper feeding pitch	0.125mm	
Sensors	Head temperature	Thermistor
	Paper presence	Photo-interrupter
	Head-up	Mechanical switch
Voltage range	Vp	24V DC ±5%
	Vdd	5V DC ±5%
Current consumption	Head	0.9A
	Motor	0.39A
Recommended paper	Width	59.5mm
	Paper (Manufacturer)	TF50SY-EY, TF50KS-E2D (Nippon Paper)
Reliability	Head pulse-resistance	100,000,000 pulses or more
	Head wear-resistance	100km or more
	Mechanical life (MCBF)	23,600,000 lines
Environment	Operation	Temperature: 5 ~ 40°C Humidity: 35 ~ 80% RH
	Storage	Temperature: -20 ~ 60°C Humidity: 10 ~ 90% RH
External dimensions (W × D × H)	111.5 × 53.5 × 40.8mm	
Weight	Approx. 300g	

Accessories

Auto cutter	▶ AC-5/5F	▶ AC-7	▶ ACS-229
Cutting method	Guillotine	Rotary	Slide cutting
Paper width thickness	59.5 ± 0.5mm 0.065mm	59.5 ± 0.5mm 0.15mm	45 - 69mm 0.06 - 0.15mm
Max. cutting frequency	6 cuts/min	10 cuts/min	20 cuts/min
Voltage	24V ± 1.0%	24V ± 10%	24V ± 10%
Current (peak)	1.3A	1.3A	0.8A
Operating temperature	5 - 40°C	5 - 40°C	0 - 45°C
Size	70 × 55 × 31.7mm	96.5 × 85.5 × 40mm	80 × 55.7 × 15mm
Weight	160g	150g	140g
Reliability	300,000 cuts	500,000 cuts	500,000 cuts
Number of tab left			
(F) Full cut blade type	None or 1 tab	None or 1 tab	None
(P) Partial cut blade type	Several tabs	Several tabs	None or 1 tab



Paper roll
112 mm



LT-481

Features

- Low noise printing
- High-speed printing
- High resolution
- High reliability due to heavy duty design



Specifications

Printing method	Line thermal dot printing	
Total dots	832 dots/lines	
Dot density	8 dots/mm	
Printing width	104mm	
Printing speed	Max. 100mm/sec. (800 dot-lines/sec.)	
Paper feeding pitch	0.125mm	
Sensors	Head temperature	Thermistor
	Paper presence	Photo-interrupter
	Head-up	Mechanical switch
Voltage range	Vp	24V DC ±5%
	Vdd	5V DC ±5%
Current consumption	Head	1.6A
	Motor	0.48A
Recommended paper	Width	111.5mm
	Paper (Manufacturer)	TF50SY-EY, TF50KS-E2D (Nippon Paper)
Reliability	Head pulse-resistance	100,000,000 pulses or more
	Head wear-resistance	100km or more
	Mechanical life (MCBF)	8,000,000 lines
Environment	Operation	Temperature: 5 ~ 40°C Humidity: 35 ~ 80% RH
	Storage	Temperature: -20 ~ 60°C Humidity: 10 ~ 90% RH
External dimensions (W × D × H)	161 × 60 × 41mm	
Weight	Approx. 420g	

Accessories

Auto cutter	▶ AC-6	▶ ACS-249
Cutting method	Guillotine	Slide cutting
Paper width thickness	111.5 ± 0.5mm 0.065mm	55 - 115mm 0.06 - 0.13mm
Max. cutting frequency	6 cuts/min	20 cuts/min
Voltage	24V ± 10%	24V ± 10%
Current (peak)	1A	0.8A
Operating temperature	5 - 40°C	0 - 45°C
Size	130 × 55 × 21.5mm	130 × 55.7 × 15mm
Weight	260g	220g
Reliability	300,000 cuts	300,000 cuts
Number of tab left		
(F) Full cut blade type	None or 1 tab	None
(P) Partial cut blade type	Several tabs	None or 1 tab

