

LTP Series

LTPF247/LTPF347 PRINTERS

LTPF247 and LTPF347 are new 2" and 3" thermal line dot printer mechanisms which add up to the "Easy-Paper-Operation" product-line. A printing speed of 220mm/s and a very robust construction are outstanding features of this series. The mechanisms are especially designed for various POS - applications as well as for applications where a quick print-out is needed such as ticketing or ATMs. As to peripherals, a serial and parallel interface, an autocutter with full-cut and half-cut function as well as a winderunit are available.

- Super high speed printing of max. 220mm/s.
- Easy Paper Operation with latch function
- High resolution printing of 8dots/mm
- Long life of 100km print length/100 million pulses
- Low noise printing
- Easy thermal head cleaning by removable platen



LTPF347



LTPF247

Model		LTPF247	LTPF347
Printing	Method	Thermal line dot printing	
	No. of dots/line	448	640
	Printable dots per line	432	576
	Common activatable dots/line	248	352
	Resolution (mm)	8 dots	
	Width (mm)	54	72
	Speed (mm/s) ¹	220	
Paper feed pitch (mm)	0.125		
Detection	Head temperature	By thermistor	
	Platen position detection	By mechanical switch	
	Out-of-paper detection	By photo interrupter	
Dimensions (WXDXH) mm ¹	86.2 x 54 x 25.8	110.2 x 54 x 25.8	
Weight (g)	apprx. 150	apprx. 175	
Power supply	Operating voltage	Vp line: 24V +/- 10%; Vdd line: 5V +/- 5%	
	Current consumption ²	max.10.4A @ 26.4V; max. 9.2A @ 24V	max.14.8A @ 26.4V; max.13.0A @ 24V
Service life	Pulse activation	100 million pulses or more	
	Abrasion resistance	100km or more	
Operating temperature (°C)	0 to +50		
Storage temperature (°C)	-20 to +60		
Paper	Width (mm)	58	80
	Paper feed force	0.98N (100gf) or more	
	Paper hold force	0.98N (100gf) or more	

¹ Print speed changes according to the processing of the controller and print pulse width

² When heat resistance is 630.5 Ω and the fixed two-division printing is used

CUTTER, INTERFACE BOARD & CPU

ACUF224 AND ACUF324 AUTO CUTTER

The ACUF series is a compact and light-weight sliding type automatic cutter developed for the LTPF series printer mechanisms. ACUF224A, ACUF224B, ACUF324A and ACUF324B are freely adjustable and guarantee free paper setting by separating fixing and movable blade.

IFF001-01B INTERFACE BOARD FOR LTPF247 AND LTPF347

The interface IFF001-01B is an interface used with LTPF series printers. It processes and converts data input sent from a host device. The IFF001-01B is compatible with both parallel and serial data input. It prints extended character sets as well as bit images. Furthermore, the interface provides an output of internal test patterns and informs about the status of the printer.

PTF00P01 CPU FOR LTPF247 AND LTPF347

- For individual design-in into various applications
- Drives LTPF247 and LTPF347 printer mechanisms
- Supports both parallel and serial input
- Provides high quality printing by automatically adjusting print density according to temperature and voltage
- Reduces current consumption using the power saving function
- Registers and prints any font using the downloaded character function and the user-defined character function
- Downloaded characters, user-defined characters, option fonts, character strings, stamps etc. can be stored in external ROM
- Prints barcodes using the barcode print function

Model	ACUF224A/B	ACUF324A/B
Cutting Method	sliding type	
Applicable paper width (mm)	60	82
Cutting Condition	Partial/full cut	Partial/full cut
Applicable paper thickness (µm)	60 to 80	
Paper curling direction tendency	Fixing blade side	
Drive voltage:		
Motor	24V+/-10%	
Detector	5V+/-5%	
Startup current	max. 1.2A	
Minimum paper cutting length (mm)	10	
Operating time	600 msec max./cycle	
Cutting frequency	max. 30 cuts/minute	
Operational life	500.000 cuts	
Operating temperature (°C) / humidity	0 to 50 / 35% to 90%	
Storage temperature (°C) / humidity	-20 to 60 / 35% to 90%	
External dimensions (mm) (WxDxH)	80 x 64 x 19	102 x 64 x 19
Mass (g)	130	150

Model	IFF001-01B	
Application	LTPF series printer mechanism	
Character type	Extended graphics character set Downloaded characters User-defined characters	
	Optional font	
Character configuration	16-dot Standard size character 16x8 Kanji size character 16x16	24-dot 24x12 24x24
Input control method	Parallel Serial	
No. of characters/line ¹	27 (LTPF247), 36 (LTPF347)	
Line spacing	16 dots ²	
Character spacing	4 dots ²	
Maximum print speed ³	220 mm/s	
Operating voltage range		
Vcc	5V+/-10%	
Vp	24V+/-10%	
Current consumption (Icc) ⁴		
Printing	0.30A max.	
Stand by	0.15A max.	
Operating temperature (°C)	0 to +50	
Storage temperature (°C)	-20 to +60	
Dimensions (WxDxH) mm	80 x 100 x 19.6	
Weight (g)	appr. 50	

¹ 24-dot standard size character, character spacing 4 dots

² The default value is changeable through commands

³ 25°C, fixed 2-block division, 24-dot font and 27 characters or less, 16-dot line spacing, and 4-dot character spacing

⁴ Vcc = 5V, 25°C, no error, when no input/output terminal is connected

Model	PTF00P01	
Applicable printer	LTPF247	LTPF347
Package type	144 pin flat package	
Dimension (WxDxH) mm	22.0 x 22.0 x 3.05	
Configuration	C-MOS LSI	
Character type	Extended graphics character set Katakana character set ¹ JIS 1st and 2nd level Kanji, Chinese, Korean ¹ Downloaded characters ² User-defined characters Option font ³	
Input control method	Parallel Serial	
Operating voltage		
Vcc	5V+/-10%	
Vp	24V+/-10%	
Operating frequency	27 MHz+/-0.5%	
Current consumption ³		
Printing	230mA	
Standby	20µA	
Operating temperature (°C)	0 to +50	
Storage temperature (°C)	-20 to +60	

¹ To print Kanji / Katakana characters, the Japanese CG (PTJCG2) is necessary. To print Chinese / Korean characters, the respective CGs for Chinese and Korean are necessary

² External RAM or ROM must be needed

³ Vcc = 5V, 25°C, no error, when input/output terminal is not connected