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24V DRIVE, ULTRA HIGH SPEED LINE THERMAL PRINTER 2" MECHANISM, WITH AVAILABLE CUTTER

FTP-621MCL301/302

■ OVERVIEW

This thermal printer (driven by 24 VDC) and cutter provide high speed printing for 2- inch wide paper (60 mm). This printer is small in size, light weight, and has low power consumption. The print head is designed with open construction for easy maintenance.

This printer is suitable for a variety of applications, such as POS terminals, ticket machines, label printers, measuring devices and medical equipment.

In addition to the interface board, a driving LSI (MCU + Gate Array) is also available.

■ HIGHLIGHTS

- **Ultra high speed printing**
  It can print at 100 mm/s (800 dotlines/s) by using Fujitsu Components' unique head drive control system.
- **Auto cutter**
  Full or partial cutting are available by normal or reverse rotation of the motor (command set).
- **Low power consumption**
  The peak current for head driving is approximately 3.5 A (at 50 mm/s printing speed, 50% printing ratio).
- **Easy head access**
  Open head construction makes head maintenance easy, especially for head cleaning.
- **Paper auto loading function**
  The thermal paper can be loaded without head-up lever operation.
- **High resolution**
  8 dots/mm head provides clear print output.
- **Selectable paper paths**
  Front or rear insertion types are available.
  FTP-621MCL302 can print on paper thicknesses of up to 150 μm.

FTP-621MCL301/302 shown after assembly with FTP-621CT001cutter

FTP-621CU102, FTP-633GA101

FTP-621DCL012

1

■ DESIGNATION

Item		Part number
Printer mechanism	Front paper insertion type	FTP-621MCL301
	Rear paper insertion type (supports thick paper)	FTP-621MCL302
Cutter		FTP-621CT001
Interface board		FTP-621DCL012
LSI	Micro Controller Unit	FTP-621CU102
	Gate Array	FTP-633GA101

■ GENERAL SPECIFICATIONS

Item		Specifications
Printing method		Thermal-sensitive line dot method
Dot structure		448 dots/line
Dot pitch (Horizontal)		0.125 mm (8 dots/mm)—Dot density
Dot pitch (Vertical)		0.125 mm (8 dots/mm)—Line feed pitch
Effective printing area		56 mm
Number of columns		37 columns/line (maximum)—Alphanumeric KANA
Maximum printing speed		800 dotlines/s (100 mm/s) maximum
Character types		JIS ANK : 128 International characters : 130 Semi-graphic : 63 ASCII small characters : 31 Download : 384
Character composition, dimensions (H×W), Number of columns (standard)		24 × 12 dots, (3.0 × 1.5 mm), 37 columns 32 × 16 dots, (4.0 × 2.0 mm), 28 columns 24 × 24 dots, (3.0 × 3.0 mm), 18 columns 32 × 32 dots, (4.0 × 4.0 mm), 14 columns
Interface		1) Centronics standard 2) Bus interface*1
Cutter	Cutting method	Guillotine method
	Cutting type	Full-cut or partial cut (command set)
	Minimum cut length	20 mm
	Paper thickness	65 to 150 μm

(Continued)

2

(Continued)

Item		Specifications
Power supply	For head	24 VDC ± 5%, average:*2 0.25 (1.29) A (at 25 mm/s printing speed, 25% printing ratio) 0.43 (1.72) A (at 50 mm/s printing speed, 25% printing ratio) 1.66 (3.01) A (at 100 mm/s printing speed, 25% printing ratio) ( ): Peak
	For motor	24VDC ± 5%, 1.0 A maximum
	For logic	5VDC ± 5%, 0.5 A maximum
Weight		Mechanism with cutter: approx. 440 g. Interface board: approx. 100 g
Dimensions	Mechanism + cutter Interface board	107 (W) × 60 (D) × 71.0 (H) mm (excluding connector) 140 (W) × 89 (D) × 24.0 (H) mm
Life	Thermal head	Pulse durability : 1×10^8 pulse/dot (using Fujitsu Takamisawa's standard driving method) Wear resistance : 50 km (at 25% printing ratio)
	Cutter	Cutting life: 3×10^5 times
Environmental conditions	Operating temperature	+5 to +40°C*3
	Operating humidity	20 to 85% RH (no condensation)
	Storage temperature	–20 to +60°C (excluding paper)
	Storage humidity	5 to 95% RH (no condensation)
Detection	Head temperature	By thermistor (applied energy control, abnormal temperature detection)
	Paper out/Mark detect	By photointerrupter (command set)
	Head-up	By microswitch
Paper width		60^{+0}_{-1} mm
Recommended thermal sensitive paper*5		1 ply paper in roll : FTP-020P0020 Thicker paper in roll : FTP-020PJ102*4

*1: The data to be printed is automatically read out by the printer driver equipment memory (host system frame memory). The communication is parameter transfer.

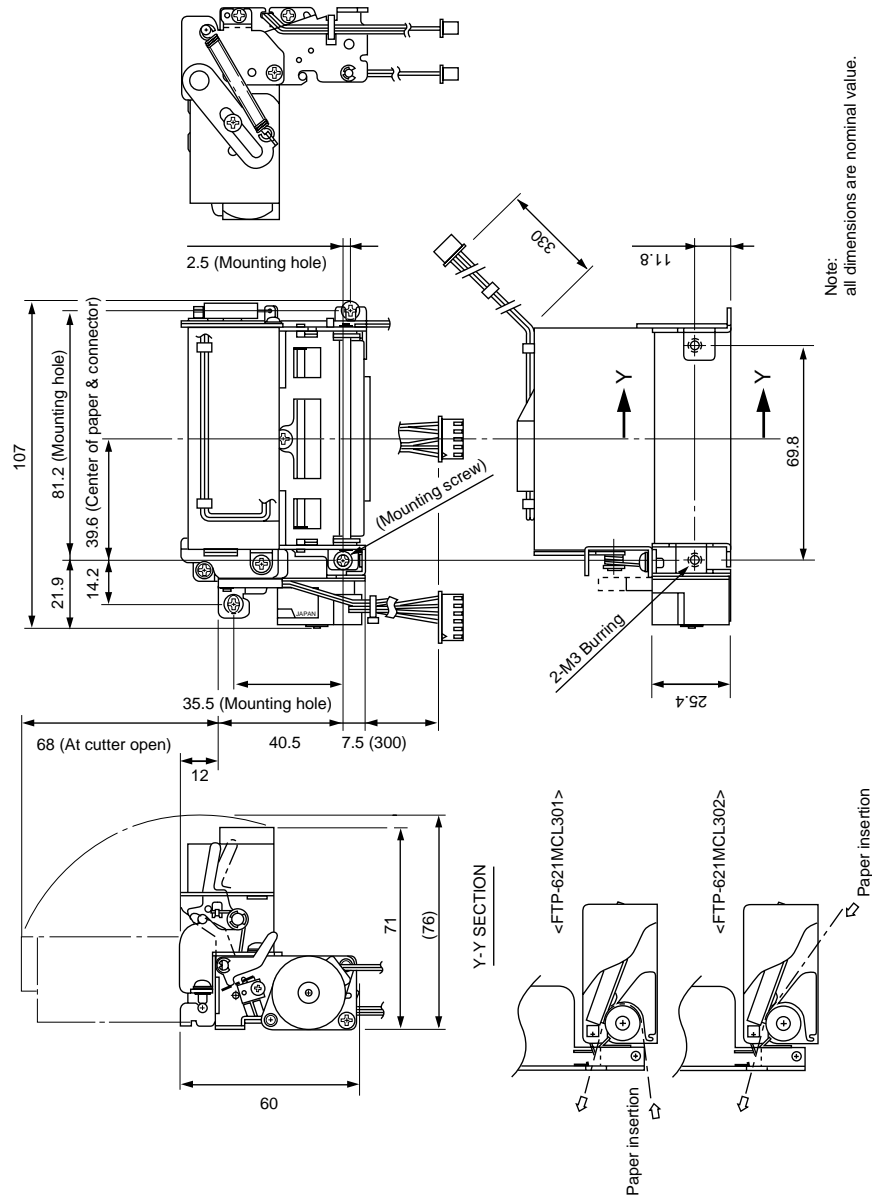*2: At 25°C, maximum applied voltage, minimum head resistance, specified paper, stable printing ratio.

*3: Temperature range for guaranteed printing density. It can operate at 0 to +40°C.
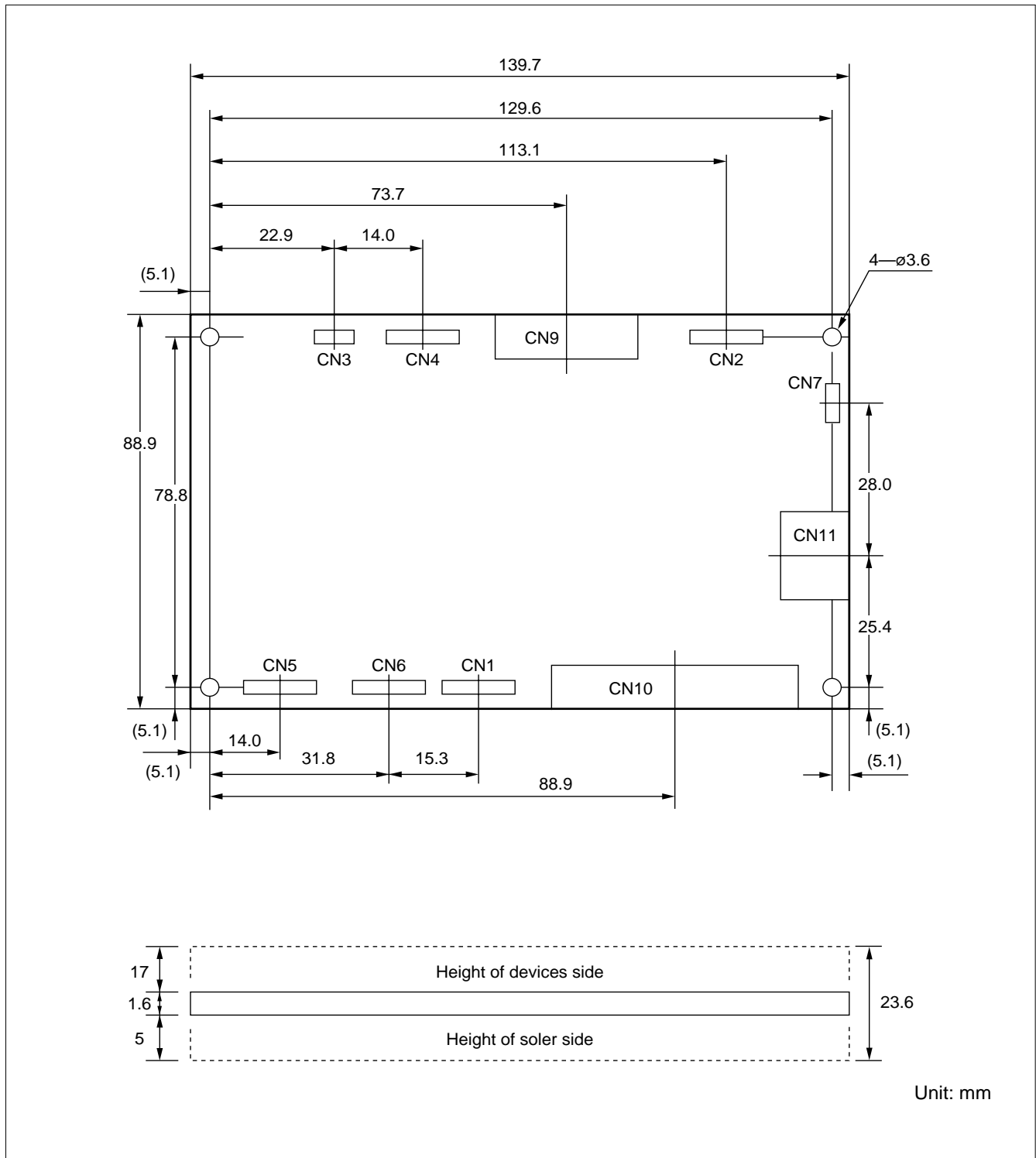
*4: Printer mechanism FTP-621MCL302 is to be used.

*5: Please contact us for other thermal papers.

■ DIMENSIONS

Printer mechanism with cutter

Note:
all dimensions are nominal value.

2.5 (Mounting hole)

330

11.8

107

81.2 (Center of paper & connector)

(Mounting hole)

39.6

21.9

14.2

(Mounting screw)

JAPAN

Y

Y

69.8

2-M3 Burring

25.4

35.5 (Mounting hole)

68 (At cutter open)

40.5   7.5 (300)

12

71   (76)

Y-Y SECTION

60

<FTP-621MCL301>

<FTP-621MCL302>

Paper insertion

Paper insertion

Paper insertion

Unit: mm

Interface board

Unit: mm

■ INTERFACE, COMMAND, OPTIONS

Please refer to the FTP-621DCL002/012 DATA SHEET for Interface, Command, and Options.

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