

FUJITSU Component Thermal Printer FTP-62GMCL153/453 series

Fujitsu 2" high speed (200mm/s)thermal printer mechanism with cutter option

Overview

The compact, ultra low profile design FTP-62GMCL series thermal printer (driven by 24VDC) provides high speed printing (200mm/s) for 2-inch wide paper.

The series is suitable for a variety of applications, such as POS/ECR, kiosk terminals, ticket machines, label printers, banking machines, measuring devices, medical equipment, etc.



- High-speed printing
 It can print at 200mm/s (1600 dotlines)
 - It can print at 200mm/s (1600 dotlines/s) maximum by using Fujitsu Components' unique head drive control
- Rear paper insertion mechanism with lock type
 Fujitsu Components' unique platen release mechanism allows for a straight paper path and easy head maintenance
- Auto cutter
 Optional ultra-low profile auto cutter (full/partial cut) comes mounted from the factory (FTP-62GMCL453)
- Multi-feature diecast frame The rugged die-cast frame provides excellent ESD performance, is shock/ vibration resistant and the heat-sink allows for continuous printing
- Compact size
 Depth: 20.4mm, width: 76.2mm, height: 36.3mm (FTP-62GMCL153/#01)
 Depth: 34.8mm, width: 80.5mm, height: 45.6mm (FTP-62GMCL453)
- High resolution8 dots/mm head provides clear print
- UL recognized, file # E171434
- RoHS compliant



FTP-62GMCL153#01



FTP-62GMCL453

Part numbers

Item		Part Number	
Printer mechanism	Back insertion	FTP-62GMCL153 (58mm paper width)	
		FTP-62GMCL153#01 (60mm paper width)	
Printer mechanism with cutter	Back insertion	FTP-62GMCL453 (58mm paper width, with cutter)	
LSI for driving		Under development	
Interface board	Serial (RS232C, USB)	FTP-62GDSL001#01 (Japanese font)	
	Serial (RS232C, USB)	FTP-62GDSL001#02 (Traditional Chinese font)	
Interface cable	Serial	FTP-62GY302	
	USB	FTP-62GY301	
Power supply cable	Logic, head, motor	FTP-62GY601	

Specifications

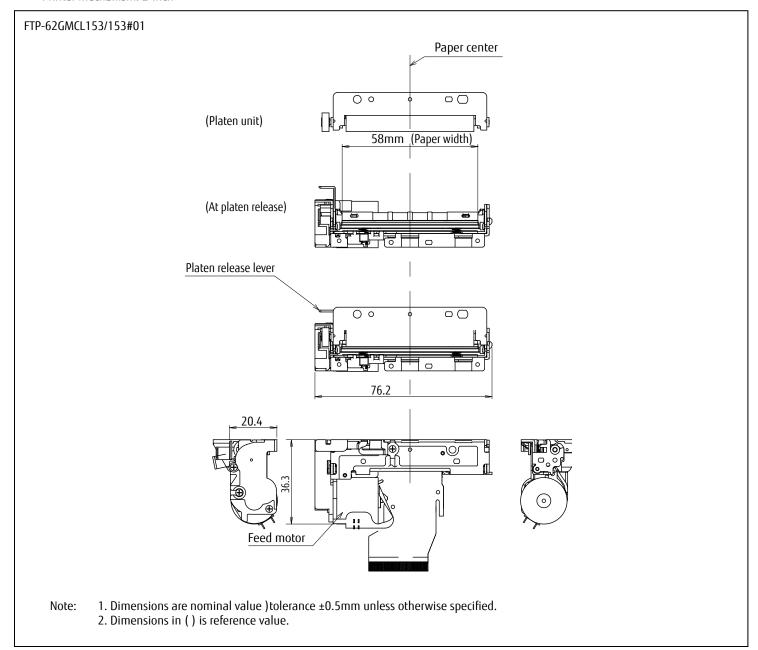
Item		Specifications			
Part number		FTP-62GMCL153	FTP-62GMCL153#01	FTP-62GMCL453	
Printing method		Thermal sensitive line dot method			
Dot structure		432 dots/lines			
Dot pitch (horizont	al)	0.125mm (8 dots/mm) - Dot	density		
Dot pitch (vertical)		0.125mm (8 dots/mm) - Line feed pitch			
Effective printing a	rea	54mm			
Number of columns	S	ANK 36 columns/line			
Paper width		58mm +0/-1	60mm +0/-1	58mm +0/-1	
Paper thickness		60-150µm*1	60-150µm* ¹	60-100µm*1	
Cutting type				Full or partial	
Printing speed		200mm/s (1600 dot lines/s)			
Character types	Alphanumeric KANA International and special OCRI OCRIII OCRIV Extended numeric JIS KANJI level 1, 2, non-Kanji Traditional Chinese	159 types 195 types 103 types 23 types 103 types 12 types JIS KANJI: approx. 6800 (FTP 13, 503 (FTP-62GDSL001#02			
Character dimensions (W x H), number of characters		8 x 16 dots, 54 columns, ANI 12 x 24 dots, 36 columns, AN 16 x 16 dots, 27 columns, AN 24 x 24 dots, 18 columns, AN	X 24 x 40 dots NK 24 x 48 dots NK 36 x 60 dots	s, 18 columns, OCRI s, 18 columns, OCRII s, 12 columns, OCRIV s, 18 columns, extended numeric	

^{*1:} there may be exceptions

Item		Specifications			
Part number		FTP-62GMCL153	FTP-62GMCL153#01	FTP-62GMCL453	
Power	For head	24VDC ±10% 2.8A (24V, 1500 Ω, +25°C, concurrent applied dot number: 176 dots)			
	For printer motor	24VDC ±10% 0.6A maxin	num		
	For logic	3.3 or 5VDC ±5% 0.1A m	aximum		
Dimensions (WxDxH)	Printer mechanism	76.2 x 36.3 x 20.4mm		80.5 x 45.6 x 34.8mm	
	Interface board (DCL/DSL)	70 x 35mm			
Weight	Printer mechanism	70g		135g	
	Interface board (DCL/DSL)	15g			
Expected life	Head	Pulse durability: 100 million pulse/dot (using Fujitsu Components' standard driving method Wear resistance: 100km (at 12.5% print ratio)			
Cutter				1,000,000 cuts min.	
Environmental	Operating temperature	+5°C to +40°C (guarante	e)		
conditions	Operating humidity	20 to 85% RH (no conde	nsation)		
	Storage temperature	-20°C to +60°C (excludin	g paper)		
	Storage humidity	5 to 95% RH (no conden	sation)		
Detection functions	Head temperature	By thermistor			
	Paper out/Mark detect	By photointerrupter			
	Head release	By slide switch			
Recommended	High sensitive paper	TF50KS-E45 (Nippon pa	per)		
thermal sensitive paper	Standard paper	TF-60KS-E (Nippon pape PD150R (Oji paper)	er)		
	Medium term paper	TF-60KS-F1 (Nippon pap PD170R (Oji paper) P220VBB-1 (Mitsubishi p	•		
	Long term paper	PD160R (Oji paper)			

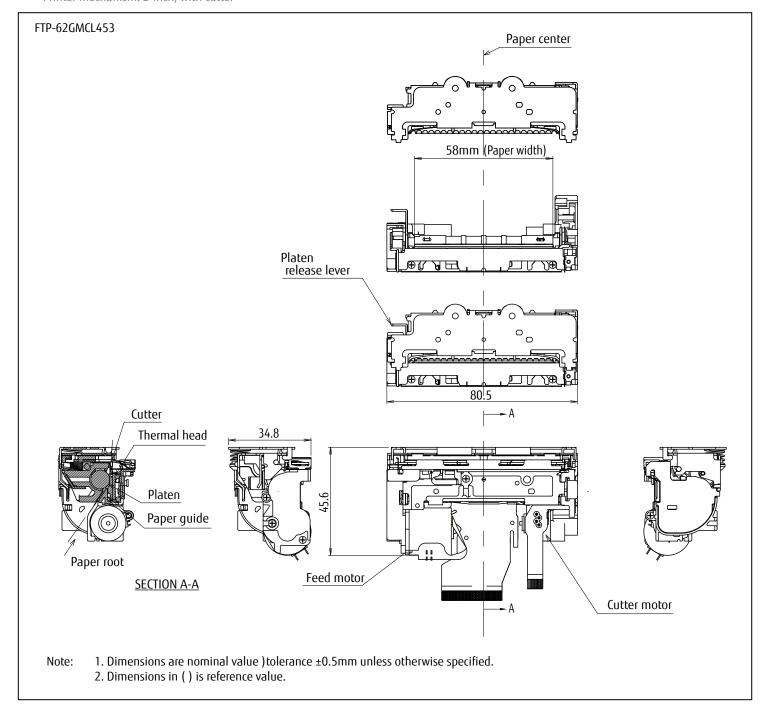
Dimensions

• Printer mechanism: 2-inch



Dimensions

• Printer mechanism: 2-inch, with cutter



Connector pin assignments of printer mechanism (FPC) Recommended connector of head FPC: 54104-5031 (Molex) or equivalent

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No	Signal	Content	1/0
1	VSEN	Paper sensor power	IN
2	PHK	Cathode for photo interrupter	OUT
3	PHE	Emitter for photo interrupter	OUT
4	N.C.	Not connected	-
5	VH	Head drive power	IN
6	VH	Head drive power	IN
7	VH	Head drive power	IN
8	VH	Head drive power	IN
9	DI	Data in	IN
10	/STB2	/Strobe2	IN
11	/STB3	/Strobe3	IN
12	VDD	Logic power	IN
13	GND	Head ground	-
14	GND	Head ground	-
15	GND	Head ground	-
16	GND	Head ground	-
17	GND	Head ground	-
18	GND	Head ground	-
19	GND	Head ground	-
20	GND	Head ground	-
21	TM	Thermistor	OUT
22	N.C.	Not connected	-
23	/STB1	/Strobe1	IN
24	/LAT	/Data latch	IN
25	CLK	Clock	IN
26	VH	Head drive power	IN
27	VH	Head drive power	IN
28	VH	Head drive power	IN
29	VH	Head drive power	IN
30	N.C.	Not connected	-
31	SW	Platen switch release	OUT
32	SW	Platen switch release	OUT
33	MT_/A	Excitation signal /A	SINK/SOURCE
34	MT_/A	Excitation signal /A	SINK/SOURCE
35	MT_A	Excitation signal A	SINK/SOURCE
36	MT_A	Excitation signal A	SINK/SOURCE
37	MT_/B	Excitation signal /B	SINK/SOURCE
38	MT_/B	Excitation signal /B	SINK/SOURCE
39	MT_B	Excitation signal B	SINK/SOURCE
40	MT_B	Excitation signal B	SINK/SOURCE

Connector pin assignments of cutter (FPC) Recommended connector of cutter motor FPC: 52745-1297 (Molex) or equivalent

No	Signal	Content	1/0	
1	MT_B	Excitation signal B	SINK/SOURCE	
2	MT_B	Excitation signal B	SINK/SOURCE	
3	MT_/B	Excitation signal /B	SINK/SOURCE	
4	MT_/B	Excitation signal /B	SINK/SOURCE	
5	MT_A	Excitation signal A	SINK/SOURCE	
6	MT_A	Excitation signal A	SINK/SOURCE	
7	MT_/A	Excitation signal /A	SINK/SOURCE	
8	MT_/A	Excitation signal /A	SINK/SOURCE	
9	N.C.	Not connected	-	
10	VSEN	Paper sensor power	IN	
11	PHE	Emitter for photo interrupter	OUT	
12	PHK	Cathode for photo interrupter	OUT	

Contact

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