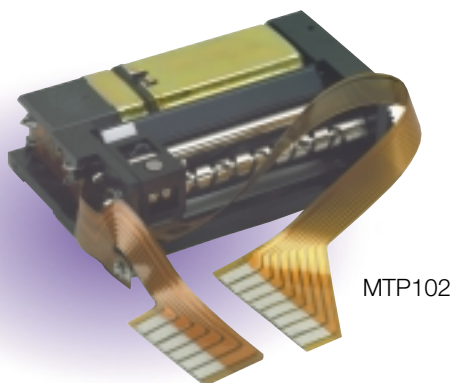


MTP Series

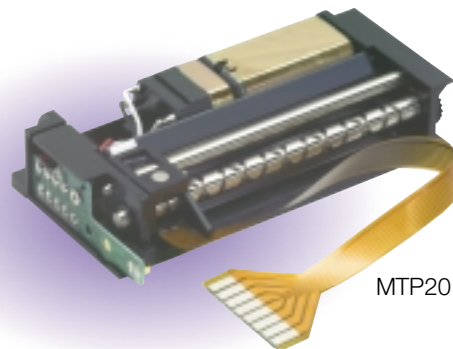
MTP SERIES PRINTERS

MTP Series thermal printers offer a wide range of features, making them ideal for applications where size, portability, low power consumption, battery operation and affordability are important factors. MTP Series printers provide the benefit of hardcopy printouts for verifying results or retaining records from an array of small or handheld portable instruments. Small in size and price, the MTP Series printers are widely used in applications such as calculators, measuring instruments, analyzers, medical devices, educational equipment and personal computer terminals.

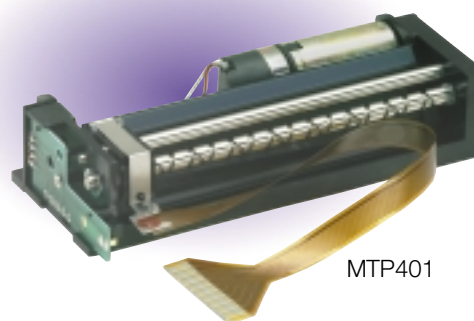
- Compact, lightweight design
- High reliability
- Suitable for battery operation
- Designed for versatile applications
- Silent, non-impact system



MTP102



MTP201



MTP401

Model	MTP102-16	MTP201-20	MTP201-24	MTP401-40	MTP201G-128	MTP201G-166	MTP401G-280	
	Character type			Graphic type				
Dot composition	7 x 110	7 x 138	7 x 166	7 x 278	8 x 128	8 x 166	8 x 280	
Printing	Method							
	Thermal serial head system							
	Direction							
	Left to right							
	No. of characters/line	16	20	24	40	18	24	40
	Timing							
	Synchronized with Tach-Generator							
	Width (mm)	26.4	45.9	46	66.7	44.7	46	67.2
Paper feed pitch (mm)	3.8			2.8				
Speed (cl/s)	1.2	1.0	0.9	0.5	0.9		0.5	
Speed (cps)	19	20	22	20	16	22	20	
Detection	Home position							
Mechanical switching system								
Dimensions (WxDxH) mm	48 x 31 x 13.8	70 x 34 x 14.4		91 x 35.5 x 20	70 x 34 x 14.4		91.5 x 35.5 x 20	
Weight (g)	Approx. 35		40	50	40		50	
Power supply	Operating voltage							
	5 VDC ± 1.0							
Service life	Current consumption							
	3.2 A max. (printing) / 250 mA max. (feeding)							
MCTF	500,000 lines							
	Failure rate							
1 x 10E-6/line max								
Operating temperature (°C)								
0 to 50								
Storage environment (°C)								
-40 to 60								
Paper	Width (mm)	38 +0/-1	58 +0/-1	80 +0/-1	58 +0/-1	80 +0/-1		
	Path	Curve						
	Thickness (µm)	65 ± 5						

INTERFACE BOARD

IFM001-01B/01BM INTERFACE BOARD FOR MTP SERIES

The IFM001-01B interface board prints data from a host system on all models in the MTP Series. It supports both 8-bit parallel and serial (TTL) input and is equipped with a wide variety of commands including double-width print, character spacing control and inverse print, and can print on a graphic printer. The IFM001-01BM interface board is also equipped with an EEPROM, allowing downloaded characters to be printed.



IFM001-01B

Model		IFM001-01B	
Applicable mechanism		MTP Series Character & Graphic printers	
CPU		HD6433238R43F (SMT) / HD6433238R42P (DIP)	
Input control method		8-bit parallel (Centronics) STROBE, BUSY hand shaking	
		Serial (TTL level) BUSY control, Xon/Xoff control	
Character type		Alphanumeric, Katakana	
		International, extended graphics	
Dimensions (WxDxH) mm		71.5 x 59 x 11.5	
Weight (g)		20	
Operating voltage (Vcc)		5 VDC \pm 0.5	
Current consumption (Icc)	Standby	Max. 27 mA @ 5VDC	
	Printing	Max. 30 mA @ 5VDC	
Operating temperature ($^{\circ}$ C)		0 to 50	
Storage temperature ($^{\circ}$ C)		-20 to 60	
Model		HD6433238R43F	HD6433238R42P
Applicable mechanism		MTP Series Character & Graphic printers	
Package form		64-pin SMT	64-pin shrink DIP
Dimensions (WxDxH) mm		57.6 x 17.0 x 7.62	17.2 x 17.2 x 2.7
Configuration		C-MOS LSI	
Input method		8-bit parallel (Centronics), Asynchronous serial	
Operating voltage (Vcc)		5 VDC \pm 0.5	
Operating frequency (MHz)		4.91 \pm 0.5%	