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Seiko Instruments Inc.

LTPG247 and CAPG247

(with auto-cutter)

The LTPG247 and CAPG247 (with auto-cutter) are small footprint, high performance, 24V 2" direct thermal printer mechanisms. With EZ-OP clamshell paper replacement, these proven mechanisms are ideal for integrating into point-of sale systems, medical devices, test and measurement hardware, and more. Both models can be integrated with either the IFG001 interface board or the PTG00P01 processor, adding design flexibility to meet individual mechanical and electrical design requirements.

- 150 mm/sec print speed
- Temperature, platen position, out of paper, and cutter position sensors.
- Small footprint design
- Choice of interface board or processor

Product Specifications

		CAPG247	LTPG247
Model		CAPG247	LTPG247
Printing	Method	Thermal line dot printing	
	Number of dots/ line	432	
	Resolution (dots/mm)	8	
	Paper width (mm)	58	
	Printing width(mm)	54	
	Max speed (mm/sec)	150	
	Paper path	Curved	
Detection	Head temperature	By thermistor	
	Platen position detection	By mechanical switch	
	Out of paper detection	By photo interrupter	
	Cutter home position	By mechanical switch	-
Power supply(V)	Operation voltage (Vdd)	3.14 to 3.46 / 4.75 to 5.25	
	Operation voltage (Vp)	21.6 to 26.4	
Peak current(A)	Head	5.2 (26.4V/288dots)	
	Motor	0.4 / 0.55 *	
	Cutter	0.5	-
Cutting	Method	Slide type	-
	Paper thickness (µm)	54 to 80 **	-
	Cutting type	Full cut / Partial cut (Leave center point)	-
	Operating time (max sec/ cycle)	0.5	-
	Cutting pitch (min mm)	10	-
	Cut frequency (max cuts/ min)	30	-
Service life	Pulse activation (pulse)	100 million	
	Abrasion resistance (km)	100**	
	Life (cut)	1,000,000	-
Operating temperature(°C)		0 to 50	
Dimensions(W x D x H mm)		80.5 x 65.0 x 22.2 ***	79.5 x 43.0 x 17.4 ***
Mass(g)		Approx.180	Approx.80

Interface Board

		IFG001-01SK	IFG001-01UK
Model		IFG001-01SK	IFG001-01UK
CPU		PTG00P01	
Thermal Printer		CAPG247, LTPG247	
Operating voltage (V)		Vp:21.6 to 26.4	
Character matrix (H x W dots)		16 dots characters : 16x8, 16x16	
		24 dots characters : 24x12, 24x24	
Character type	Optional Font	Yes	Yes
	Downloaded Character	Yes	Yes
	User-defined Character	Yes	Yes
	Extend graphics character set	Yes	Yes
	Katakana character set	Yes	Yes
	JIS 1&2 level Kanji	Yes	Yes
Interface		Serial (RS-232C)	USB
Dimensions (W x D x H mm)		75.0 x 75.0 x 16.0	

CPU

Model	PTG00P01
Thermal Printer	CACG247, LTPG247
Package form	128pin QFP
Operating voltage(V)	Vp: 21.6 to 26.4
	Vcc: 3.0 to 3.6
Operating frequency(MHz)	18.43 +/- 0.5%
Configuration	C-MOS LSI
Input method	Parallel, Serial, USB
Character type	Extended graphics character set
	Other characters is availabe with CGs* or external ROM
Character matrix(H x W dots)	16dots characters : 16 x 8, 16 x 16
	24dots characters : 24 x 12, 24 x 24
Dimensions(W x D x H mm)	22.0 x 16.0 x 3.15

* Use recommended thermal paper
** Excluding protrusion