

FDD·HDD APPLICATIONS (monolithic integrated circuit)

	Type Number	Package	Case Pins & Variation	Package	Circuit Functions & Applications	Main Specifications
1	LA8200M	QIP	44	3106	Read/Write Amp for FDD Use	Read circuit/write circuit and either disk side select MPX circuit in a single chip, dual 5V/12V supply operation
2	LA8205M	MFP	24	3108	Read/Write Amp for HDD Use	Miniflat package version of LA8205
3	LA8206M	MFP	24	3108	Read/Write Amp for HDD Use	Mirror image pin assignment package version of LA8205M
4	LB1631M	MFP	16FS	3097	2-Channel Low-Voltage Low-Saturation Bidirectional Motor Driver	Bidirectional control of compact DC motor, brake function
5	LB1633M	MFP	16FS	3097	2-Channel Low-Voltage Low-Saturation Bidirectional Motor Driver	3-input enable pin, low-voltage (battery) drive available
6	LB1656	DIP	16F	3054A	2-Phase Stepping Motor Driver for FDD	12V/5V output power transistor, power save function, TSD circuit
7	LB1656M	MFP	16FS	3097	2-Phase Stepping Motor Driver for FDD	Miniflat package version of LB1656
8	※LB1657M	MFP	16FS	3097	2-Phase Stepping Motor Driver for FDD	12V/5V output power transistor, power save function, TSD circuit
9	◎LB1676M	MFP	16FS	3097	3-Phase Brushless Sensorless 5V FDD Spindle Motor Driver	Belt drive type, no hall element required, current limiter, thermal shutdown circuit, FG amplifier on chip
10	◎LB1677M	MFP	16FS	3097	3-Phase Brushless Sensorless 5V FDD Spindle Motor Driver	Belt drive type, no hall element required, current limiter, thermal shutdown circuit, FG amplifier on chip
11	◎LB1831M	MFP	16FS	3097	2-Channel Low-Voltage Low-Saturation Bidirectional Motor Driver	Low voltage operation 2.5V min, I _o max = 1.0A, brake function
12	◎LB1833M	MFP	16FS	3097	2-Channel Low-Voltage Low-Saturation Bidirectional Motor Driver	Low voltage operation 2.5V min, I _o max = 1.0A, brake function, through current preventer on chip
13	LC7990	DIP	22S	3059	HDD-Use/General-Purpose Digital Servo Controller	Digital servo for spindle motor, possible to input servo characteristic data from microcomputer
14	LC7990M	MFP	30S	3073A	HDD-Use/General-Purpose Digital Servo Controller	Miniflat package version of LC7990
15	LC7991	DIP	16	3006B	Motor Controller (Fixed Speed Digital Servo)	V _{DD} = 5V ± 10%, f _{FG LOCK} max > 2000Hz (2400rpm controllable when encoder of 50 pulses/revolution is used)
16	LC7991M	MFP	20	3036B	Motor Controller (Fixed Speed Digital Servo)	Miniflat package version of LC7991

PRINTER DRIVERS (monolithic integrated circuit)

	Type	Package	Case Pins & Variation	Package No.	Circuit Functions & Applications	Main Specifications
17	LB1650	DIP	16F	3054A	Dual Bidirectional Motor Driver	V _{CC} max=36V, I _o max=2A (wide operating voltage range 4.5V to 36V)
18	LB1651	DIP	20H	3037A	Dual Bidirectional Motor Driver	V _{CC} max=36V, I _o max=2A (wide operating voltage range 4.5V to 36V)
19	LB1693	DIP	20H	3037A	3-Phase Brushless Motor Driver	PWM type, switching regulator control section
20	LB1720	DIP	18	3007A	8-Channel Transistor Array for Thermal Head	Common emitter, low output saturation voltage 0.1V typ (I _o =100mA), base current limiting resistance
21	LB1721M	MFP	20	3036B	8-Channel Transistor Array for Thermal Head	Common emitter, low output saturation voltage 0.15V typ (I _o =100mA), base current limiting resistance
22	LB1820	DIP	28H	3147	3-Phase DD Motor Driver	Digital speed control circuit
23	LB1822	DIP	28H	3147	3-Phase DD Motor Driver	Digital speed control circuit, pre driver
24	LC7935AN	QIP	64A	3057	Thermal Driver	32-dot thermal print head driver, high voltage, high current (28V,65mA)
25	LC7936A	QIP	64A	3057	Thermal Driver	32-dot thermal print head driver, high voltage, high current (28V,65mA)
26	LC7932	DIP	30S	3061	16-Bit LED Driver	V _{DD} =5V±10%, operating f _{max} =5MHz, driver output V _o =15V, I _{OL} =30mA
27	LC7932M	MFP	30S	3073A	16-Bit LED Driver	Miniflat package version of LC7932
28	※LV8800C	Chip	-	-	Bi-CMOS LED Printer Head Driver	64-bit regulated current source output driver

LCD CONTROLLERS, DRIVERS (monolithic integrated circuit)

	Type Number	Package	Case		Circuit Functions & Applications	Main Specifications
			Pins & Variation	Package No.		
29	LA5310M	MFP	8	3032B	Divided Voltage Generator for LCD	5 voltage outputs, power supply for 1/9 bias LCD applications
30	LA5311M	MFP	8	3032B	Variable Divided Voltage Generator for LCD	4 OP amps to deliver 4 voltage outputs, current dissipation 1.0mA max
31	LA5315M	MFP	20	3036B	Variable Divided Voltage Generator for LCD	5 voltage outputs, power supply for variable bias LCD applications (1/5 bias to 1/13 bias)
32	LA5316M	MFP	20	3036B	Voltage Regulator for LCD (Divided Voltage Generator for Multiple Drive)	Regulator, brightness control pin, divided voltage controllable externally (1/5 bias to 1/13 bias)
33	ⓄLA5317M	MFP	30SLF	3073A	Voltage Regulator for LCD (Divided Voltage Generator for Multiple Drive)	Divided voltage controllable externally (1/5 bias to 1/20 bias)