

PREPARED BY: _____ DATE _____	SHARP LIQUID CRYSTAL DISPLAY GROUP SHARP CORPORATION SPECIFICATION	SPEC No. LC94X10
APPROVED BY: _____ DATE _____		FILE No. _____
		ISSUE OCT. 12. 1994
		PAGE 25 Pages
		APPLICABLE DIVISION
		☒ DUTY PANEL DEVELOPMENT CENTER ☐ TFT DEVELOPMENT CENTER ☐ LCD PRODUCTS DEVELOPMENT CENTER ☐ EL PRODUCTION DEPT.

SPECIFICATION FOR
Passive Matrix LCD Module

Model No.

LM64K11

☐ CUSTOMER'S APPROVAL

DATE _____

BY _____

PRESENTED

BY

Y. Inoue

Department General Manager

Engineering Department 2

DUTY Panel Development center

LCD GROUP

3. Mechanical Specifications

Table 1

Parameter	Specifications	Unit
Outline dimensions	167.7 (W) × 122.8 (H) × 5.3 TYP (D)	mm
Viewing Area	125.6 (W) × 95.2 (H)	mm
Display format	640 (W) × 480 (H) full dots	—
Dot siz	0.19 × 0.19	mm
Dot spacing	0.02	mm
*1 Dot color	Black*2	—
*1 Background color	White*2	—
Weight	Approx. 145	g

*1 Due to the characteristics of the LC material, the colors vary with environmental temperature.

*2 Positive-type display

Displayed data 'H': Dots ON : Black

Displayed data 'L': Dots OFF: White

4. Absolute Maximum Ratings

4-1 Electrical absolute maximum ratings

Table 2

Parameter	Symbol	MIN.	MAX.	Unit	Remark
Supply voltage (Logic)	$V_{DD}-V_{SS}$	0	6.0	V	Ta=25 °C
Supply voltage (LCD drive)	$V_{EE}-V_{SS}$	0	30.0	V	Ta=25 °C
Input voltage	V_{IN}	0	V_{DD}	V	Ta=25 °C

5-3 Interface signals

Table 6

OLCD

Pin No	Symbol	Description	Level
1	S	Scan start-up signal	'H'
2	CP1	Input data latch signal	H→L
3	CP2	Data input clock signal	H→L
4	DISP	Display control signal	Display on..'H' off..'L'
5	V _{DD}	Power supply for logic and LCD (+)	(Table 4)
6	V _{SS}	Ground potential	—
7	V _{EE}	Power supply for LCD (+)	(Table 4)
8	DU0	Display data signal	H (ON), L (OFF)
9	DU1		
10	DU2		
11	DU3		
12	V _{SS}	Ground potential	—
13	DL0	Display data signal	H (ON), L (OFF)
14	DL1		
15	DL2		
16	DL3		

OCCFT

Pin No	Symbol	Description
1	GND	Ground line (from Inverter)
2	NC	—
3	HV	High voltage line (from Inverter)

Note) Pin No. and its location are shown in Fig. 10.

OLCD

Used connector: FF6-16A-R15 (DDK)

Mating cable: 16 pins, 0.5 mm Pitch FFC or FPC, Contact portion thickness 0.3 mm

OCCFT

Used connector: BHR-03VS-1 (JST)

Mating connector: SM02 (80) B-BHS-1