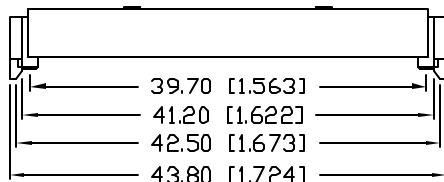


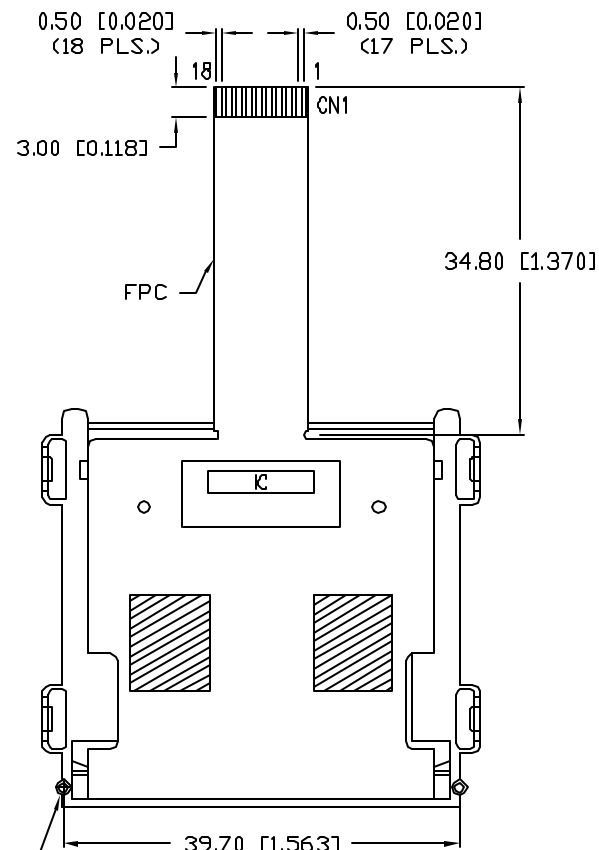
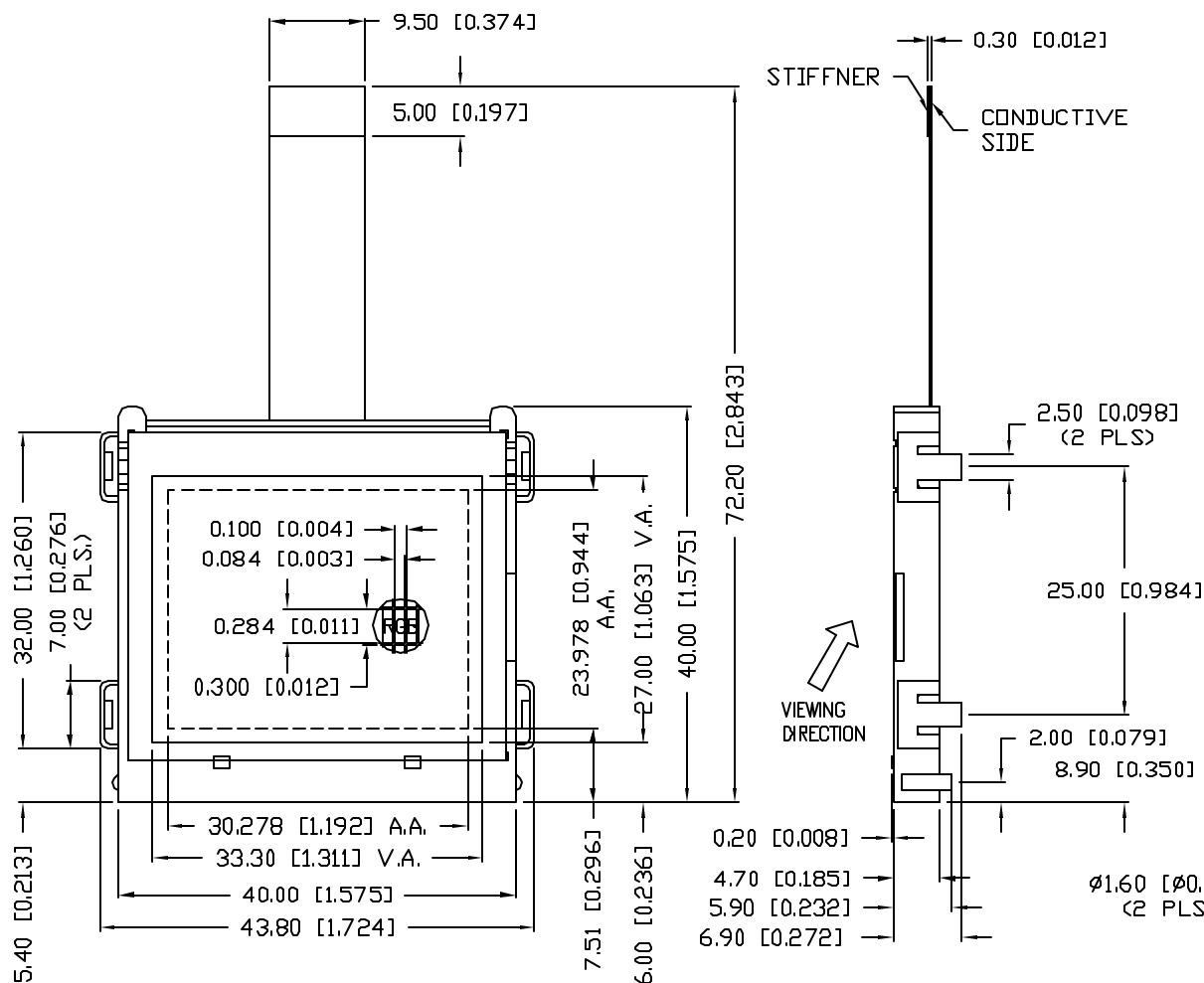
UNCONTROLLED DOCUMENT



NOTES:

1. CN1: FPC: PITCH 0.50mm
RECOMMENDED CONNECTOR: MOLEX 54550-1890 OR EQUIVALENT.

PART NUMBER		REV.
LCM-H10180GCN-15		A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11148.	4.20.07



*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.= -0.00 DECIMAL PRECISION MAX.= +0.00 DECIMAL PRECISION

UNCONTROLLED DOCUMENT

REV.

A

PART NUMBER

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RELIABILITY NOTE

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1.5" COLOR STN, 101 x 80 GRAPHIC MODULE,
NEGATIVE, TRANSMISSIVE, WHITE LED BACKLIGHT, 1/80 DUTY,
6:00 VIEW ANGLE, WEIGHT: 8.3g.

DRAWN BY:

JC

CHECKED BY:

APPROVED BY:

DATE: 1.26.04

PAGE: 1 OF 2

SCALE: N/A

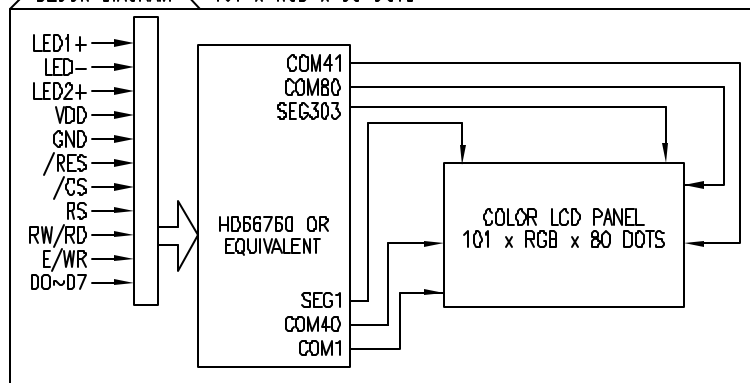
PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	LED1(+)	-	ANODE FOR LED1
2	LED(-)	-	CATHODE FOR BOTH LED1 AND LED2
3	LED2(+)	-	ANODE FOR LED 2
4	VDD	-	POWER SUPPLY FOR LOGIC AND BOOSTER
5	GND	-	GND
6	RES	L	RESET INPUT
7	CS	L	CHIP SELECT PIN LOW ENABLE
8	RS	H/L	SELECTS THE REGISTER (L: INDEX/STATUS, H: CONTROL)
9	RW/RD	H/L	R/W SIG. FOR 6800, RD SIG. FOR 8080
10	E/WR	H/L	ENABLE SIGNAL 6800/WRITE SIGNAL FOR 8080
11~18	DO~D7	H/L	DISPLAY DATA

ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC	V _{DD}	-	2.5	2.8	3.5	V
POWER SUPPLY FOR LCD	V _{LCD}	-	9.8	10.1	10.4	V
INPUT SIGNAL VOLTAGE	V _{IH}	"H" LEVEL	0.7V _{DD}	-	V _{DD}	V
	V _{IL}	"L" LEVEL	0	-	0.3V _{DD}	
POWER SUPPLY CURRENT	I _{DD}	V _{DD} =2.8V	-	0.6	-	mA
LED BACKLIGHT	VOLTAGE FOR LED1	VLED1+	Ta=25°C	-	3.2	V
	VOLTAGE FOR LED2	VLED2+	Ta=25°C	-	3.2	V
	CURRENT FOR LED1	ILED1	Ta=25°C	-	20	mA
	CURRENT FOR LED2	ILED2	Ta=25°C	-	20	mA

BLOCK DIAGRAM 101 x RGB x 80 DOTS



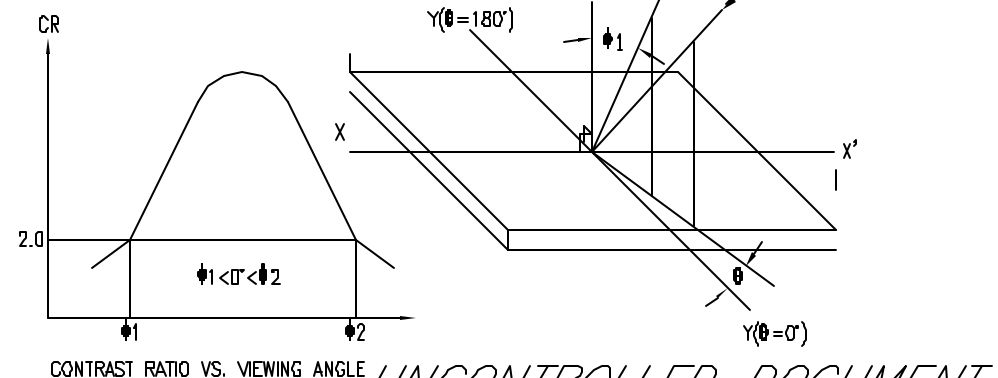
ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	Ta=25°C	-0.3	4.6	V
SUPPLY VOLTAGE FOR LCD	V _{LCD} -V _{SS}	Ta=25°C	-0.3	16.5	V
INPUT VOLTAGE	V _I	Ta=25°C	-0.3	V _{DD} +0.3	V
LED1 CURRENT	ILED1	Ta=25°C	-	25	mA
LED2 CURRENT	ILED2	Ta=25°C	-	25	mA
OPERATING TEMPERATURE*	T _{opr}	-	-20	+70	°C
STORAGE TEMPERATURE	T _{stg}	-	-30	+80	°C

OPTICAL CHARACTERISTICS

Ta=25°C

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
VIEWING ANGLE RANGE (TRANSMISSIVE MODE)	$\phi 1, \phi 2$	$\theta=0^\circ$ X-AXIS	-	60	-	DEG.
		$K \geq 3$ Y-AXIS	-	50	-	
CONTRAST RATIO	CR	$\theta=0^\circ, \phi=0^\circ$	5.0	7.0	-	-
TRANSMISSION	TM	$\theta=0^\circ, \phi=0^\circ$	-	2.5	-	%
REFLECTION	RF	$\theta=0^\circ, \phi=0^\circ$	-	12	-	%
RESPONSE TIME	Tr	$\theta=0^\circ, \phi=0^\circ$	-	190	-	ms
	Tf	$\theta=0^\circ, \phi=0^\circ$	-	110	-	ms



CONTRAST RATIO VS. VIEWING ANGLE

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