

UNCONTROLLED DOCUMENT

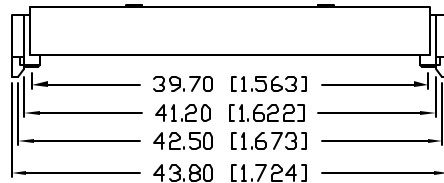
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PART NUMBER

REV.

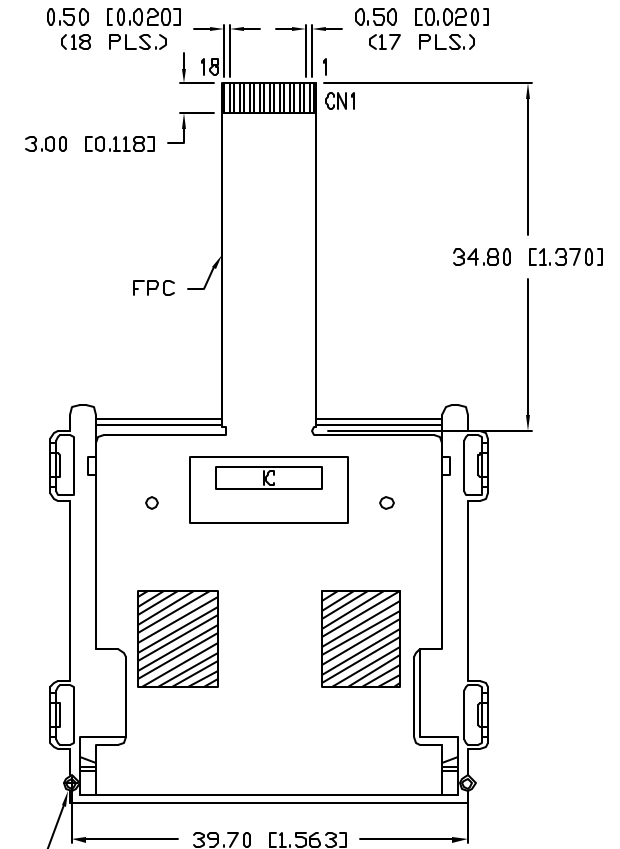
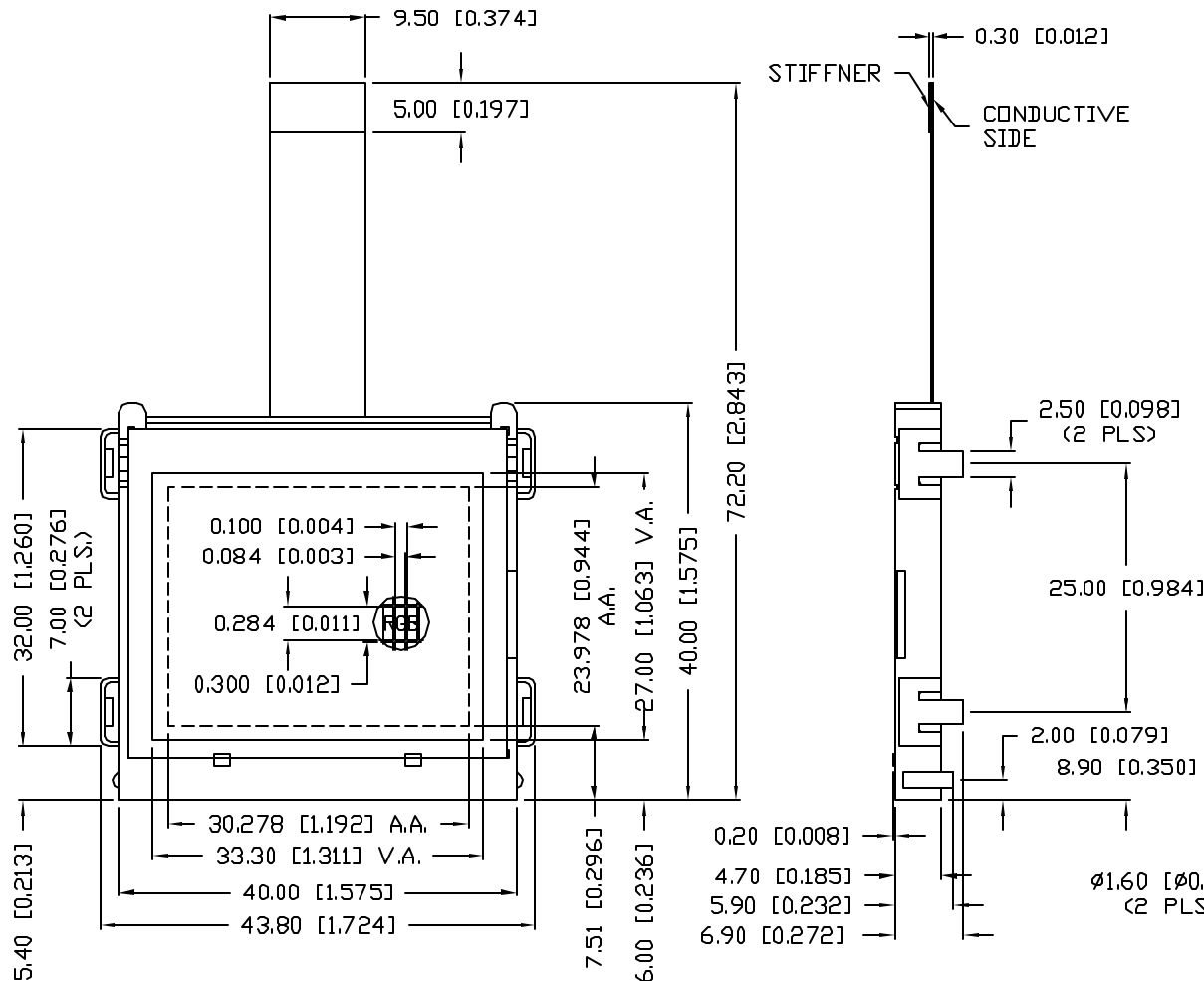
LCM-S10180GCN-15W

PRELIMINARY IN P/N DIR



NOTES:

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



*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

REV.

PART NUMBER

LCM-S10180GCN-15W

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

CONFIDENTIAL INFORMATION

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RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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DATE: 5.22.03

PAGE: 1 OF 2

SCALE: N/A

LCM-S10180GCN-15W

PRELIMINARY IN P/N DIR

PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	LED1(+)	-	LED CONTROL SIGNAL FOR LED1
2	LED(-)	-	LED CONTROL SIGNAL FOR BOTH LED1 AND LED2
3	LED2(+)	-	LED CONTROL SIGNAL FOR LED 2
4	VDD	-	POWER SUPPLY FOR LOGIC AND BOOSTER
5	GND	L	GND
6	/RES	H/L	RESET INPUT
7	/CS	H/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	D0	H/L	DISPLAY DATA
12	D1	H/L	DISPLAY DATA
13	D2	H/L	DISPLAY DATA
14	D3	H/L	DISPLAY DATA
15	D4	H/L	DISPLAY DATA
16	D5	H/L	DISPLAY DATA
17	D6	H/L	DISPLAY DATA
18	D7	H/L	DISPLAY DATA

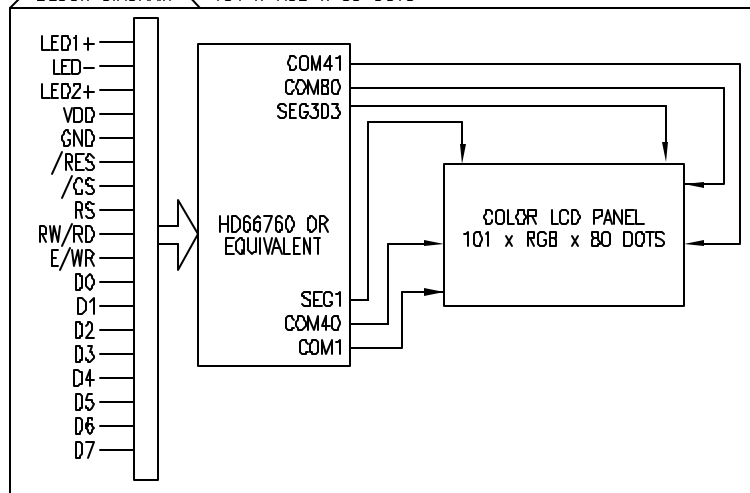
ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
SUPPLY VOLTAGE FOR LOGIC	VDD-VSS	Ta=25°C	-0.3	4.6	V
SUPPLY VOLTAGE FOR LCD	VLCD-VSS	Ta=25°C	-0.3	16.5	V
INPUT VOLTAGE	VI	Ta=25°C	-0.3	VDD+0.3	V
LED1 CURRENT	ILED1	Ta=25°C	-	25	mA
LED2 CURRENT	ILED2	Ta=25°C	-	25	mA
OPERATING TEMPERATURE*	Topr	-	-20	+70	°C
STORAGE TEMPERATURE	Tstg	-	-30	+80	°C

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
CONTRAST RATIO		CR	—	—	10	—	—
LED BACKLIGHT	STARTING VOLTAGE	VLED1	Ta=25°C	—	3.2	3.7	V
	LAMP VOLTAGE	VLED2	Ta=25°C	—	3.2	3.7	V
	FREQUENCY	ILED1	Ta=25°C	—	20	22	mA
	LAMP CURRENT	ILED2	Ta=25°C	—	20	22	mA

BLOCK DIAGRAM 101 x RGB x 80 DOTS



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