

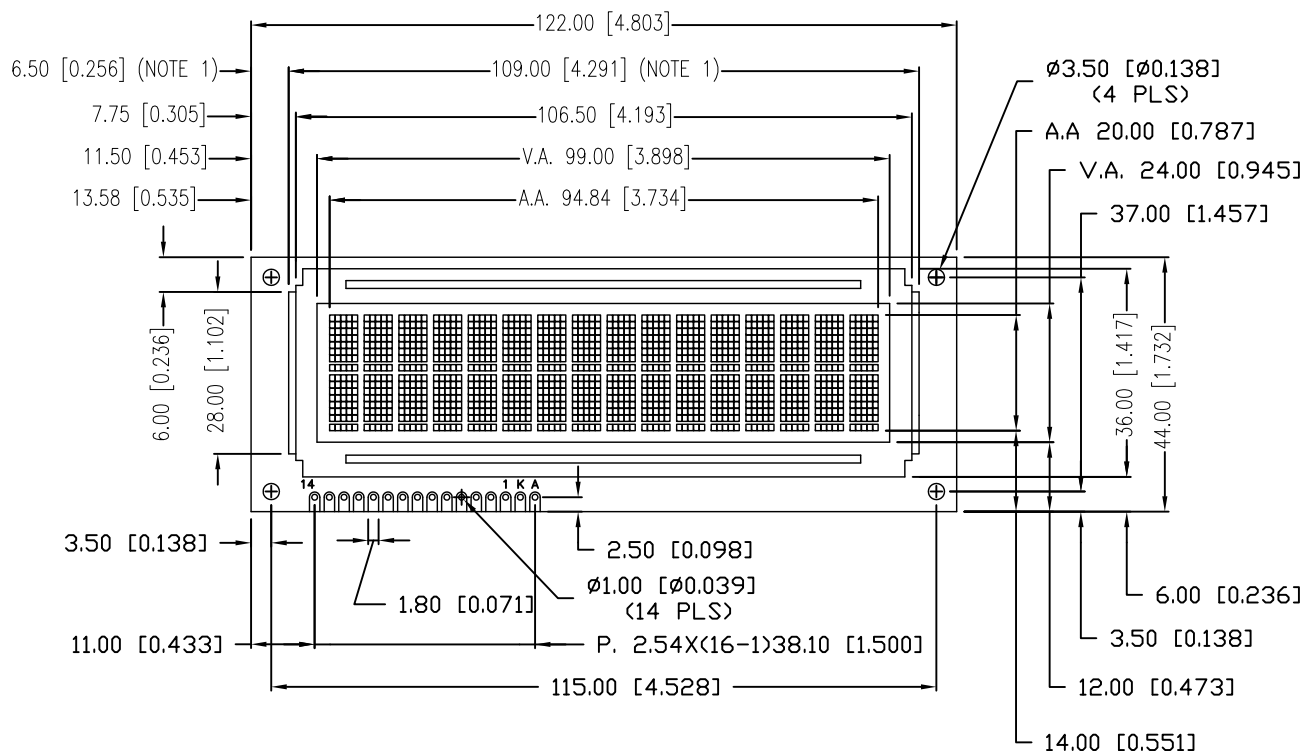
CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

PRELIMINARY IN P/N DIR

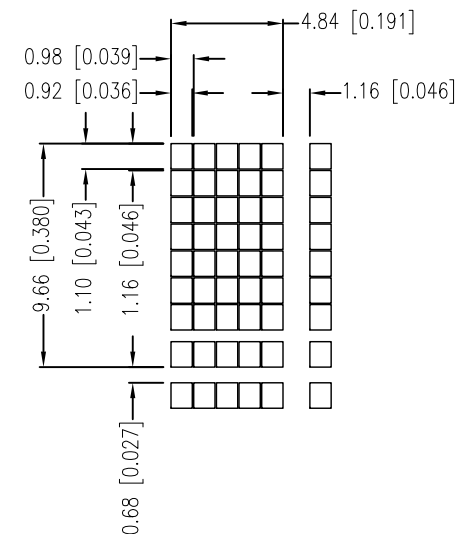
PART NUMBER

LCM-H01602DEN/D-W

REV.



CHARACTER DETAIL



NOTE:

1. THE DIMENSION IS FOR EBTN VERSIONS ONLY

*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.=+DECIMAL PRECISION MAX.=+0.00 -DECIMAL PRECISION

REV.

PART NUMBER

LCM-H01602DEN/D-W

16X2 9.66MM LARGE CHARACTER LCD MODULE, EBTN,
TRANSMISSIVE, NEGATIVE IMAGE WHITE LED BLKT

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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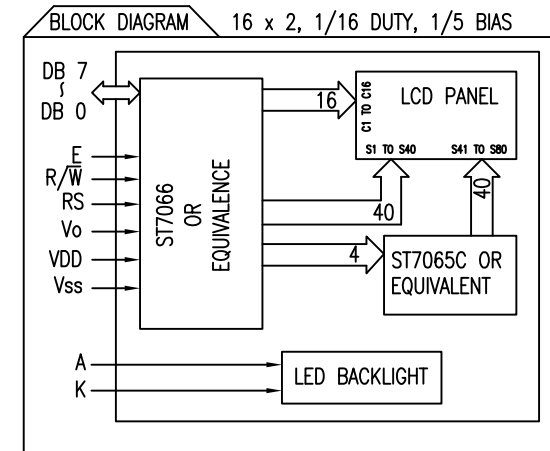
DATE: 6.5.15

PAGE: 1 OF 2

SCALE: N/A

PRELIMINARY IN P/N DIR

PIN CONFIGURATION			
PIN NO.	SYMBOL	LEVEL	FUNCTION
1	V _{SS}	—	POWER SUPPLY GND (0V) 5V FOR LCD DRIVE
2	V _{DD}	—	
3	V _O	—	
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT
5	R/W	H/L	H: DATA READ (MODULE-->MPU) L: DATA WRITE (MODULE<--MPU)
6	E	H,H->L	ENABLE
7~14	DB0~DB7	H/L	DATA BUS—SOFTWARE SELECTABLE 4 OR 8 BIT MODE.
A	BL+	—	SUPPLY VOLTAGE FOR BACKLIGHT (+VE)
K	BL-	—	SUPPLY VOLTAGE FOR BACKLIGHT (-VE)



ELECTRICAL CHARACTERISTICS		V _{DD} =4.7V to 5.3V, T _A =25°C				
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD}	—	4.75	5.0	5.25	V
SUPPLY CURRENT FOR LOGIC	I _{DD}	—	—	1.20	1.50	mA
INPUT VOLTAGE	HIGH	V _{IH}	—	0.7V _{DD}	—	V
	LOW	V _{IL}	—	-0.3	0.6	V
*LED BACKLIGHT	VOLTAGE	V _f	I _f =90mA	—	3.6	V
	CURRENT	I _f	—	—	90	mA
	POWER CONSUMPTION	PD	—	—	324	mW
	COLOR	—	WHITE	—	—	nm

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD}	T _a =25°C	-0.3	7	V
SUPPLY VOLTAGE FOR EBTN LCD	V _{DD}	—	-4.45	-3.55	V
INPUT VOLTAGE	V _I	T _a =25°C	-0.3	V _{DD} +0.3	V
OPERATING TEMPERATURE	T _{opr}	LCM-S	0	50	°C
		LCM-H	-20	70	°C
STORAGE TEMPERATURE	T _{stg}	LCM-S	-20	70	°C
		LCM-H	-30	85	°C

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