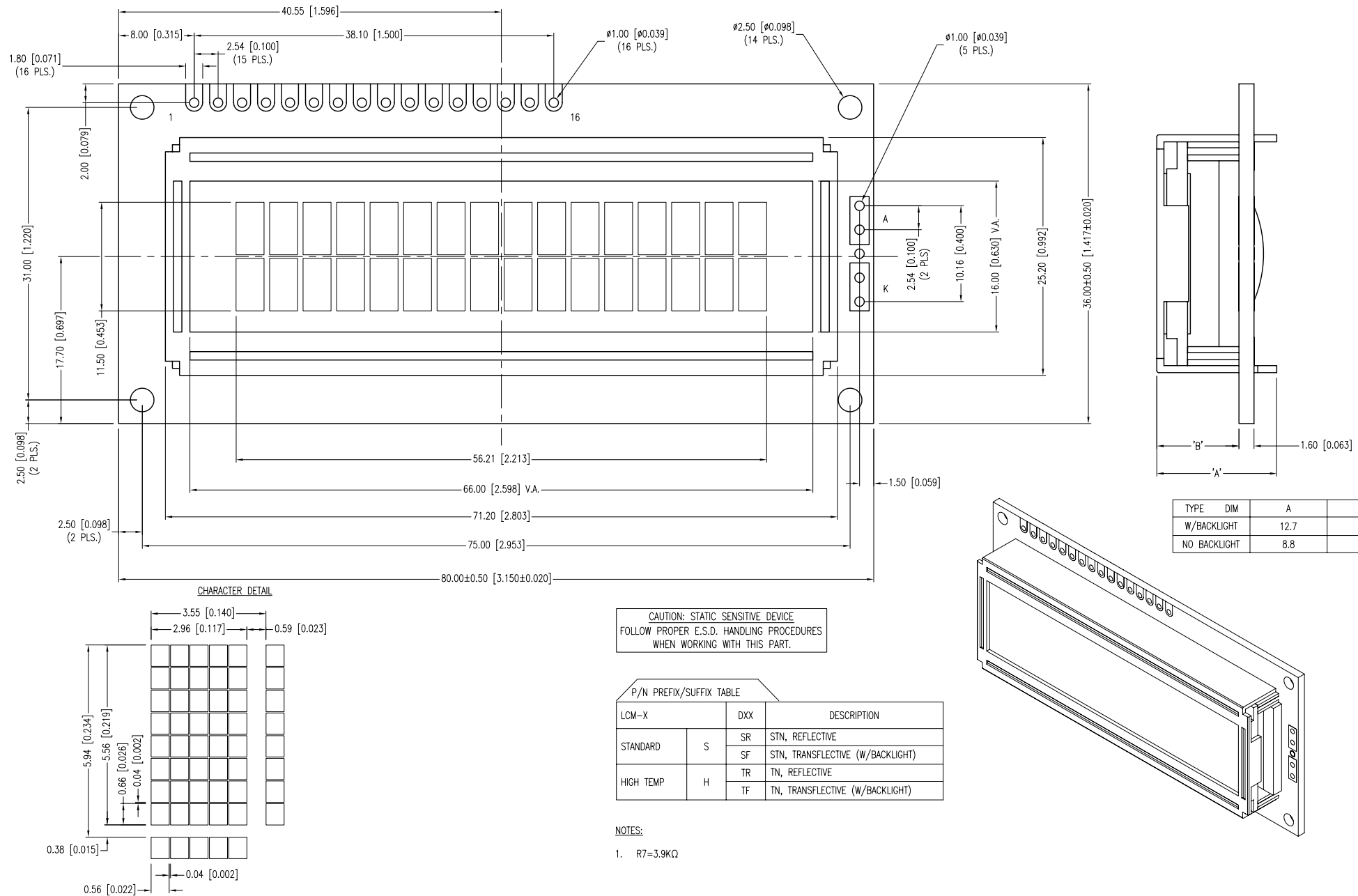




*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.= +^{DECIMAL}PRECISION MAX.= +^{DECIMAL}PRECISION -^{DECIMAL}PRECISION

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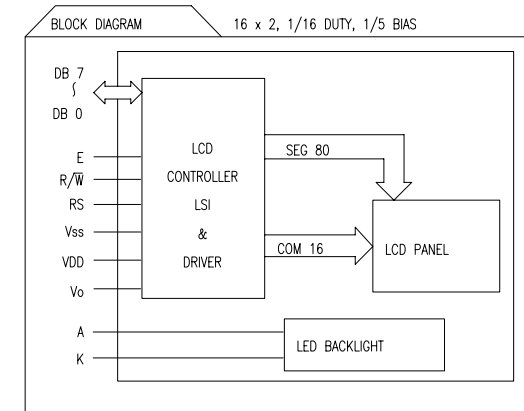
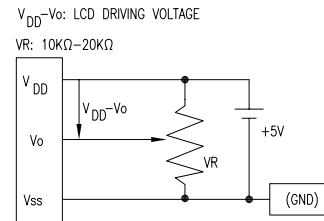
5.56mm CHAR HEIGHT, 5x8 DOT MATRIX, 16x2 LCD, 1/16 DUTY, 1/5 BIAS.

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DATE:	10.04.11	DRAWN BY:	AB
PAGE:	1 OF 2	CHKD BY:	KF
SCALE:	NTS	APRVD BY:	KF
UNIT:	mm [INCH]		Ⓟ

PIN CONFIGURATION				
PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	VSS	—	POWER SUPPLY	GND (0V)
2	VDD	—		5V
3	VO	—		FOR LCD DRIVE
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.	
15	A	—	ANODE	LED BACKLIGHT
16	K	—	CATHODE	LED BACKLIGHT



ELECTRICAL CHARACTERISTICS		VDD=4.7V to 5.3V, Ta=25°C				
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
SUPPLY VOLTAGE FOR LOGIC	VDD-VSS	—	—	5.0	—	V
SUPPLY CURRENT FOR LOGIC	IDD	VDD=5V	—	2.0	3.0	mA
INPUT VOLTAGE	HIGH	V _{IH}	—	2.2	—	VDD
	LOW	V _{IL}	—	0	—	0.6
OUTPUT VOLTAGE	HIGH	V _{OH}	—	2.4	—	V
	LOW	V _{OL}	—	—	—	0.4
LED BACKLIGHT*	VOLTAGE	V _f	I _f =160mA	—	4.2	4.6
	CURRENT	I _f	—	—	160	—
	POWER CONSUMPTION	PD	—	—	656	—
	LUMINOUS	L	I _f =160mA	70	—	—
	COLOR	—	—	—	—	—

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE FOR LOGIC	VDD-VSS	Ta=25°C	4.7	5.3	V
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-V _O	—	4.2 @ 50°C	4.8 @ 0°C	V
INPUT VOLTAGE	V _I	Ta=25°C	VSS	VDD	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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