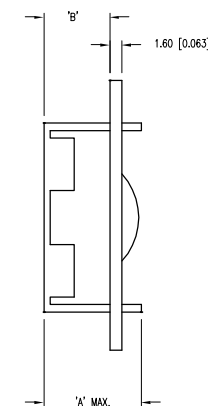
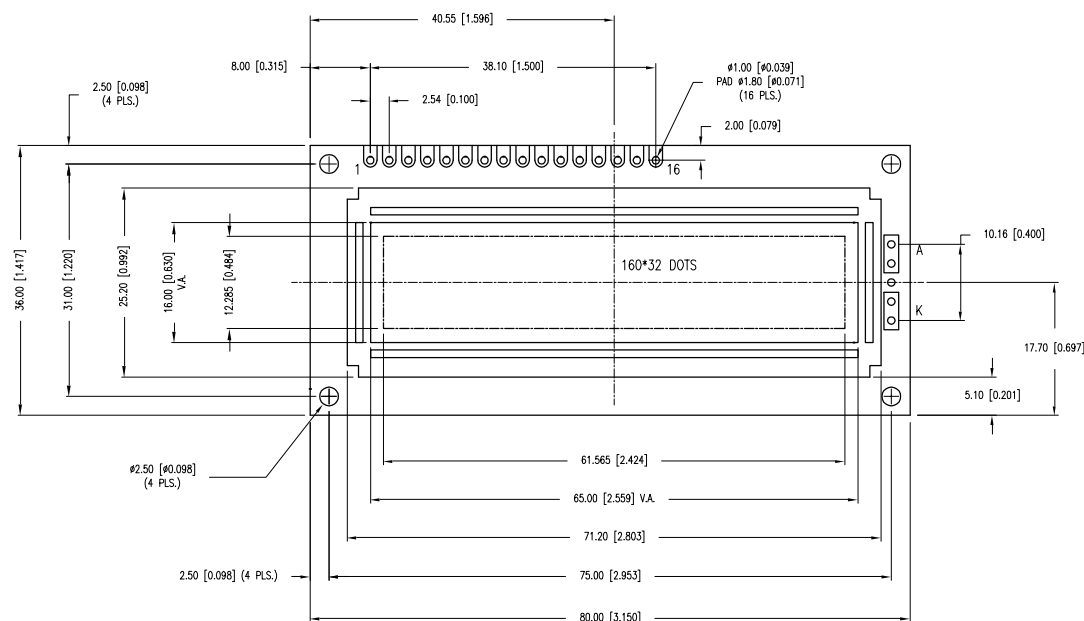


P/N PREFIX/SUFFIX TABLE

LCM-X	DX	DESCRIPTION
STANDARD	S	SR STN, REFLECTIVE
	SF	STN, TRANSFLECTIVE(W/ BACKLIGHT)
HIGH TEMP.	H	TR TN, REFLECTIVE
	TF	TN, TRANSFLECTIVE(W/ BACKLIGHT)

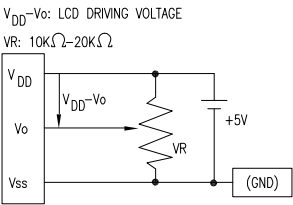
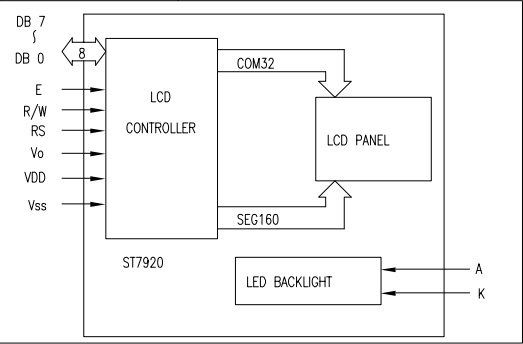
CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

TYPE	DIM.	A	B
WITH BACKLIGHT		12.7	8.8
NO BACKLIGHT		8.8	4.8



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

BLOCK DIAGRAM 160 x 32, 1/16 DUTY.



PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	Vss	-	POWER SUPPLY
2	VDD	-	
3	Vo	-	
4	RS	H/L	REGISTER SELECT
5	R/W	H/L	H: DATA READ (MODULE-->MPU) L: DATA WRITE (MODULE<--MPU)
6	E	H/L	ENABLE SIGNAL (NO PULL-UP RESISTOR)
7~14	DB0~DB7	H/L	DATA BUS
15	A	-	ANODE
16	K	-	CATHODE

ELECTRICAL CHARACTERISTICS

VDD=4.5V to 5.0V, TA=25°C

ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT
				MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC		VDD-Vss	-	4.5	5.0	5.5	V
SUPPLY CURRENT FOR LOGIC		IDD	VDD=5V	-	0.6	1.1	mA
INPUT VOLTAGE	HIGH	VIH	-	0.8 VDD	-	VDD	V
	LOW	VIL	-	-	0.2 VDD	-	V
*LED BACKLIGHT	VOLTAGE	Vf	If=40mA	-	4.2	4.6	V
	CURRENT	If	-	-	40	-	mA
	POWER CONSUMPTION	PD	-	-	168	-	mW
	LUMINOUS	L	If=40mA	70	-	-	cd/m ²
	COLOR	-	-	-	-	-	nm

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	Ta=25°C	-0.3	8.0	V
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-Vo	Ta=25°C	-0.3	12	V
INPUT VOLTAGE	VI	Ta=25°C	Vss	VDD	V
OPERATING TEMPERATURE	Topr	LCM-S	0	50	°C
STORAGE TEMPERATURE	Tstg	LCM-S	-20	70	°C

*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 -0.00 MAX.= +0.00 -DECIMAL PRECISION



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160 x 32 PIXEL GRAPHIC LCD MOD, IC: ST7920, 1/16 DUTY.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

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DATE:	5.19.10	DRAWN BY:	JH
PAGE:	1 OF 2	CHKD BY:	JD
SCALE:	N/A	APRVD BY:	SA
UNIT:	mm [INCH]		(P)