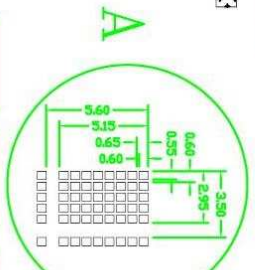
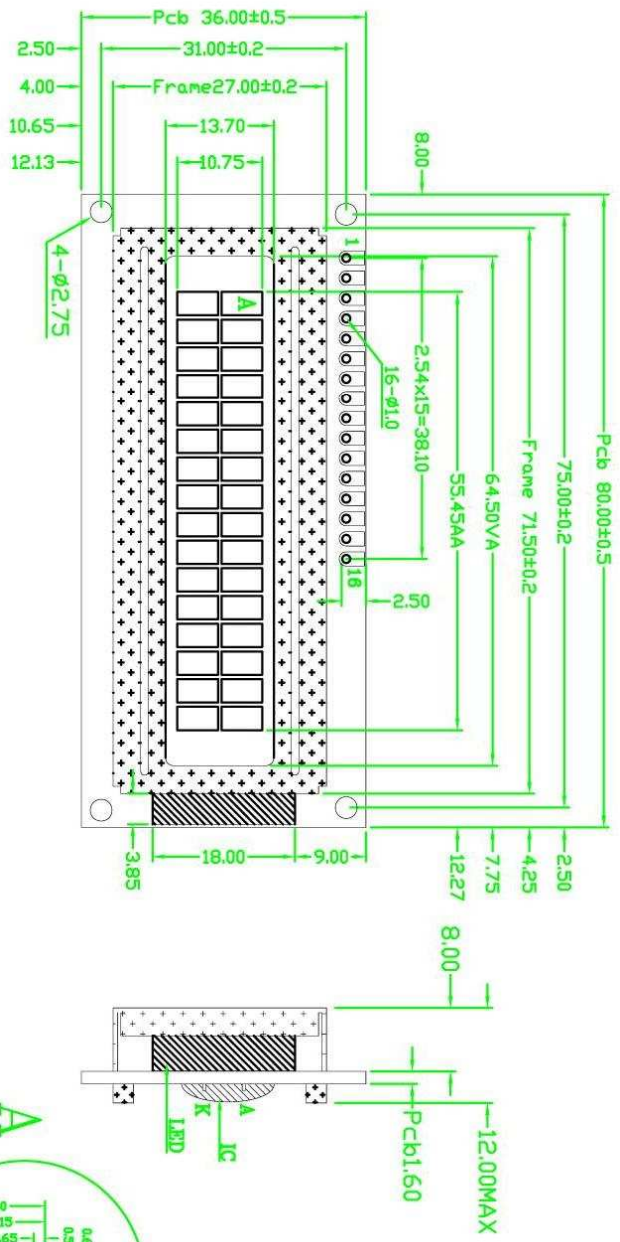


CUSTOMER'S APPROVED:

DATE:



Pin Assignment

NO. SYMBOL	DESCRIPTION
1 VSS	GROUND
2 VDD	POWER SUPPLY FOR LOGIC(+5V)
3 VO	OPERATING VOLTAGE FOR LCD
4 RS	DATA/INSTRUCTION SELECT
5 RW	READ/WRITE CONTROL
6 E	ENABLE SIGNAL
7-14 DB0-DB7	DATA BUS
15 LED +	BACKLIGHT POSITIVE
16 LED -	BACKLIGHT NEGATIVE

Mechanical Data

ITEM	STANDARD VALUE	UNIT
OUTLINE DIMENSION	80.00(L) x 36.00(W) x 12.00(H)	mm
VIEWING AREA	64.50(L) x 13.70(W)	mm
ACTIVE AREA	55.45(L) x 10.75(W)	mm
DOTS SIZE	0.55(L) x 0.60(W)	mm
DOTS PITCH	0.80(L) x 0.85(W)	mm
CHARACTER SIZE	2.95(L) x 5.15(W)	mm
CHARACTER PITCH	3.50(L) x 5.60(W)	mm

Feature

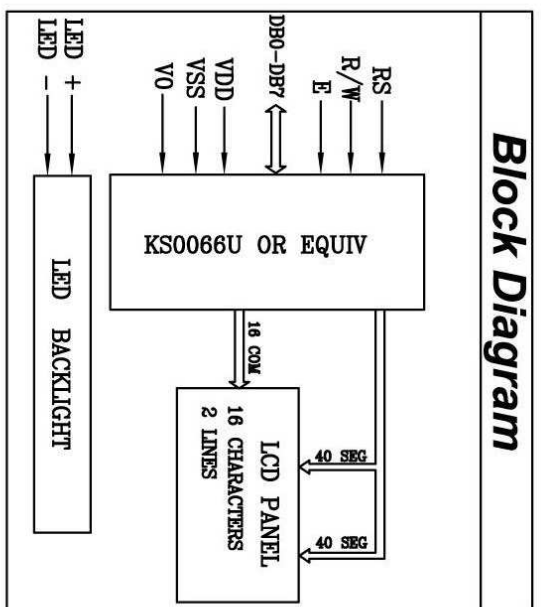
ITEM	STANDARD VALUE
DISPLAY TYPE	16 CHARACTER x 2ROW
LCD TYPE	STN(BLUE), TRANSMISSIVE/NEGATIVE.
DRIVE METHOD	1/16DUTY, 1/5BIAS, VOP4.7V, VDD5.0V.
VIEWING ANGLE	6 O'CLOCK
BACKLIGHT	WHITE(SIDE), VDD5.0V, Idd25mA.
DRIVE IC	KS0066U
OPERATING TEMP	-20 TO 70°C
STORAGE TEMP	-30 TO 80°C
CONNECTION	ZEBRA

Absolute Maximum Rating

ITEM	SYMBOL	MIN	MAX	UNIT
POWER SUPPLY(LOGIC)	VDD-VSS	0	7.0	V
POWER SUPPLY(LCD DRV.)	VDD-VO	-0.3	13.5	V
INPUT VOLTAGE	Vih	-0.3	VDD+0.3	V

Electrical Characteristics

ITEM	SYMBOL	MIN	TYP	MAX	UNIT	
VOLTAGE FOR LOGIC	VDD-VSS	4.75	5.0	5.25	V	
	SUPPLY CURRENT	IDD	-	1.3	2.2	mA
LCD DRIVER VOLTAGE	VDD-VO	0°C	4.8	5.0	5.2	V
		25°C	4.6	4.7	4.8	V
		40°C	4.4	4.5	4.6	V
INPUT VOLTAGE	Vih	0.8VDD	-	VDD	V	
	Voh	GND	-	0.3VDD	V	
OUTPUT VOLTAGE	Voh	0.7VDD	-	VDD	V	
	Vol	GND	-	0.2VDD	V	



DESCRIPTION: c/d

GENERAL TOL ± 0.20 mm

1602A-CSBLMNB5

DO NOT SCALE THIS DRAWING

PROJECTION

APPROVALS

DATE